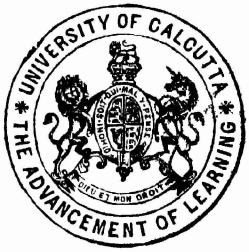
University of Calcutta.

BENGAL SECRETARIAT LIBRARY

MINUTES

FOR THE YEAR

1881-82.



CALCUTTA:

PRINTED FOR THE UNIVERSITY, AT THE BAPTIST MISSION PRESS.

1882.

BENGAL SECRETARIAT LIBRARY

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 1.

THE 30TH APRIL.

Present:

W. C. BONNERJEE, ESQ., *in the Chair.*

RAI JAGADANANDA MUKERJEA, BAHADUR
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR.
THE HON'BLE AMIR ALI.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA.
REV. J E PAYNE.
REV. J. ROBERTSON.
ALEX. PEDLER, ESQ.
REV. W. HASTIE.
DR. R. HARVEY.
REV. K S. MACDONALD.

1. The Rev. J. Robertson proposed that Mr. W. C. Bonnerjee take the Chair.

Pandit Maheschandra Nyayaratna seconded the motion which was carried unanimously.

Rai Jagadananda Mukerjea, Bahadur, then proposed that Mr. C. H. Tawney be re-appointed Registrar.

Rai Kanailal De, Bahadur, seconded the motion which was carried.

2. The annual report of the Syndicate having been circulated to all the members of the Senate, was taken as read.

Rai Kanailal De, Bahadur, moved that the report be adopted with the following alteration, *viz.*,—That Mr. W. C. Bonnerjee's name be inserted in the list of members of the Faculty of Arts as well as in the list of members of the Faculty of Law.

The Hon'ble Amir Ali seconded the motion.

The Rev. J. Robertson proposed that the motion be amended by striking out all the words after the word "adopted."

Mr. Hastie seconded the amendment which was put to the vote and carried.

The motion thus amended was then put to the vote and carried.

3. Dr. Harvey proposed that the consideration of the suggestion of the Faculty of Arts that degrees in science be instituted, and of the revised Courses for the F. A., B. A. and M. A. Examinations recommended by the Faculty of Arts at their meetings on the 25th of March 1878 and on the 10th of April 1880, be postponed until the 2nd Saturday in July.

Pandit Maheschandra Nyayaratna seconded the motion, which was carried unanimously.

CHARLES H. TAWNEY,

Registrar.

(Confirmed.)

W. C. BONNERJEE,

Chairman.

MINUTES

OF

THE FACULTY OF MEDICINE

FOR THE YEAR 1881-82.

No. 1

THE 3RD MAY.

Present

DR H. CAYLEY, *in the Chair*

DR A J PAYNE
MUNSHI TAMIZ KHAN, KHAN BAHADUR
DR K MCLEOD.
DR D D CUNNINGHAM.
DR R HARVEY

4. Read a petition from certain students who failed in one branch only at the First M. B. Examination of 1881, praying that they may be allowed to present themselves at the Examination for the degree of M. B. two years hence, provided that in the meanwhile they succeed in passing in that branch in which they failed at the last Examination.

Dr. McLeod proposed and Dr. Harvey seconded the following resolution:—

That this Faculty adheres to the resolution passed at its meeting on the 4th of July 1879.

5. Read a letter with enclosures from Dr. Coates, containing the following recommendations:

(1) That more weight be attached to the practical part of the Medical Examinations.

(2) That the difference between the L M. S. and M. B Examinations be removed by identifying the standards in each.

Dr. Harvey proposed and Dr. Payne seconded the following motion:

That the Faculty recommend to the Syndicate that, in those subjects in which there is a practical as well as a written Examination, no candidate be allowed to pass, unless he shall obtain at least one half of the marks allotted to the practical work.

The motion was carried.

Dr. Harvey then proposed and Dr. D. D. Cunningham seconded the following resolution:

That the Faculty is of opinion that steps should be taken to render the L. M. S. and M. B. Examinations more distinct than they are at present.

The resolution was carried.

Dr. Payne then proposed and Munshi Tamiz Khan, Khan Bahadur, seconded the following motion:

That a Committee be appointed to propose for the consideration of the Faculty such alterations in the regulations for the Licence in Medicine and Surgery, and for the degree of Bachelor in Medicine, as will give practical effect to the above resolution, and that the Committee consist of the following gentlemen:—

Munshi Tamiz Khan, Khan Bahadur.	Dr. D. D. Cunningham.
Dr. R. McLeod.	Dr. K. Harvey.

The motion was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)

H. CAYLEY,
President.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 1.

THE 28TH MAY.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE HON'BLE MOHARAJA JOTENDRA-MOHAN TAGORE, C. S. I. | DR. H. CAYLEY.
W. C. BONNERJEE, ESQ.

JOHN ELIOT, ESQ.

6. The Registrar reported that the President of the Faculty of Arts had appointed Mr. John Eliot to officiate for Mr. Croft during the absence of the latter from Calcutta.

7. Read a letter from Professor Jolly stating the subject on which he would be prepared to deliver lectures.

RESOLVED—

That the letter be referred to the Faculty of Law.

8. Read the following letter from the Comptroller General to the Secretary to the Government of India Home, Revenue and Agricultural Department:

No. A/26.

COMPTROLLER GENERAL'S OFFICE,
Calcutta, the 16th May, 1881.

From

THE COMPTROLLER GENERAL

To

THE SECRETARY TO THE GOVERNMENT OF INDIA, HOME, REVENUE AND AGRICULTURAL DEPARTMENT.

SIR,

I have the honor to report that the accounts of the University of Calcutta for the year 1880-81 have been audited

on my behalf, and have been found to be correct. The audit has included the transactions of the several Endowment Funds in the hands of the University Authorities, as well as of the Fee Fund. The invested balances of the Endowment Funds are in the custody of the Bank of Bengal, and the Bank's certificate was inspected and found to agree with the books of the University.

2. Annexed is a statement of the Receipts and Disbursements of the University Fee Fund for the year 1880-81.

I have, &c.,

Sd. J. WESTLAND,

Offg. Comptroller General.

No. A/27.

Copy forwarded to the Registrar of the Calcutta University.

Sd. E. W. KELLNER,

Dy. Comptroller General.

Statement of Receipts and Disbursements of the Calcutta University Fee Fund from the 1st April 1880 to the 31st March 1881.

Receipts.	Rs. A. P.	Rs. A. P.
Fees for the Entrance Examination, ...	27,970 0 0	
„ Refund, ...	40 0 0	27,930 0 0
„ First Arts, „ ...		19,660 0 0
„ B A., „ ...		10,560 0 0
„ Honors in Arts, „ ...		1,450 0 0
„ M. A., „ ...		1,350 0 0
„ B. L., „ ...	2.700 0 0	
„ Refund, ..	30 0 0	2,670 0 0
„ Honors in Law, „ ...		100 0 0
„ First L. M. S., „ ...		40 0 0
„ Second do., „ ...		1,175 0 0
„ First M. B., „ ...		640 0 0
„ Second do., „ ...		450 0 0
„ L. C. E., „ ...		675 0 0
„ B. C. E., „ ...		120 0 0
		66,820 0 0
Duplicate Certificates, ...		116 0 0
Contribution to the Gown Fund, ...		50 0 0
Sale proceeds of Calendars and Minutes, &c., ...	960 0 0	
Less Commission, ...	48 0 0	912 0 0
Fines, ...		17 0 0
Total Revenue, ..		67,915 0 0
Amount received as an advance from Government, ...		8,000 0 0
Balance on the 1st April 1880, ...		7,399 9 8
Grand Total, ...		83,314 9 8

Disbursements.	Rs. A. P.	Rs. A. P.
Salaries and Permanent Establishment,	7,739 0 0	
Remuneration to Examiners,... ...	46,747 0 0	
Medals and Prizes, ...	104 13 9	
Calendars and Minutes Printing, &c.,...	1,987 13 0	
Municipal Taxes, ...	941 4 0	
Stationery, ...	1,410 1 9	
Examination Expenses, ...	3,917 7 3	
Bonus to Permanent Establishment, ..	600 0 0	
Printing, &c., of Examination papers in England, ...	1,734 15 8	
Service Postage Stamp, ...	400 0 0	
Repairs of Building, ...	2,638 0 1	
Furniture, ...	250 0 0	
Portion of the cost of the Herschel Medal which the Herschel Testimonial Fund was unable to meet, ...	36 8 4	
Contingencies, ...	349 12 0	
Gown Fund, ...	50 0 0	
		68,906 11 10
Refunded to Government, ...		8,000 0 0
Balance on the 31st March, 1881, ...		6,407 13 10
Grand Total, ...		83,314 9 8

Sd. W. H. DOBBIE, *Asst. Comp.-General.*

ORDERED—

To be recorded.

9. Read a letter from the Comptroller General sanctioning an advance of Rs. 8,000 for the current expenses of the University.

ORDERED—

To be recorded.

10. Read a letter from the Under-Secretary to the Government of India Home, Revenue, and Agricultural Department sanctioning the affiliation of the Albert College, Calcutta, up to the F. A. standard with effect from the 1st of January 1881.

ORDERED—

To be recorded.

11. Read a letter from the Director of Public Instruction, Panjab, recommending that certain pupils of the Lahore Training College may be allowed to present themselves for the University Examinations without studying six months in an affiliated Institution, as being virtually teachers.

ORDERED—

That the Registrar inform the Director of Public Instruction, Panjab, that the Syndicate regret that they do not feel themselves justified in admitting the pupils of the Lahore Training College to the University Examinations as teachers.

12. Read a letter from T. F. Pedley, Esq., M. D., enquiring what Examinations a member of the English College of Surgeons would be required to pass in order to obtain the Calcutta M. D., and whether he would be admitted at an earlier age than that mentioned in the Calendar.

ORDERED—

That the Registrar inform Dr. Pedley that the person described in his letter can be admitted to the Examination for the degree of Doctor of Medicine by a special order of the Senate, but that, before the Syndicate can recommend this to the Senate, they must have further particulars.

13. Read a petition (forwarded by the Principal, Dacca College), from certain students of the Dacca College who were unsuccessful at the last B. L. Examination, complaining that questions were set in books or portions of books not comprised in the B. L. Course.

ORDERED—

That the Registrar inform the Principal, Dacca College, that the petition has been laid before the Syndicate, and that the Syndicate are of opinion that it is now too late to re-consider the results of the last B. L. Examination.

14. Read the proceedings of the Faculty of Medicine at their meeting on the 3rd May.

ORDERED—

(1.) That the Registrar inform Dr. Coates that the petition of certain students of the Medical College, who failed in one branch only at the First M. B. Examination held in February last, in which they pray that they may be allowed to present themselves at the Examination for the degree of M. B. two years hence, provided that in the meantime they succeed in passing in the one branch in which they failed at the last Examination, cannot be granted.

(2.) That the recommendation of the Faculty of Medicine, that, in those subjects in which there is a practical as well as a written Examination, no student be allowed to pass, unless he shall obtain at least one half of the marks allotted to the practical work, be embodied in the instructions issued to the Examiners in Medicine.

15. The Registrar reported that in consultation with Major Eckford, he had requested the following gentlemen to conduct the Examination in Civil Engineering.

T. HAINES WICKES, ESQ., C. E. J. WHITE, ESQ., C. E.	In Engineering.
A. M. NASH, ESQ., M. A.	„ Mathematics.
DR. C. J. H. WARDEN, ...	„ Physical Science.
H. H. LOCKE, ESQ., ...	„ Drawing.

RESOLVED—

That the Registrar's action be approved.

16. The Registrar brought up for consideration the Resolution of the Senate at their meeting on the 29th of December 1871 by which a paper containing passages in English to be translated into the Vernaculars of India at the option of the candidate (such passages to be taken from a newspaper or other current literature of the day), was made a part of the Entrance Examination in Oriental languages.

RESOLVED—

That the Syndicate see no reason to recommend to the Senate any change in the present system.

17. The Registrar proposed that the following footnote be appended to the certificate for the degrees of Doctor or Master in any Faculty. "In certificates granted to Masters of Arts the following words must be added; *the special branch in which he was examined having been* ——"

RESOLVED—

That the Syndicate recommend this change in the Regulations to the Senate at its next meeting.

18. Read the following letter from the Rev. W. Hastie, B. D., Principal of the General Assembly's Institution.

CHURCH OF SCOTLAND MISSION
THE GENERAL ASSEMBLY'S INSTITUTION,
Calcutta, 26th May, 1881.

To

THE REGISTRAR OF THE CALCUTTA UNIVERSITY

From

THE PRINCIPAL OF THE GENERAL ASSEMBLY'S INSTITUTION.

SIR,

I have the honor to inform you that we are printing a small Report and Year-Book or Calendar for the information and guidance of our own students. I have found by careful enquiry that our students do not purchase the University Calendar, and as a rule only obtain their information indirectly regarding the rules and arrangements of the University. It has therefore appeared to me desirable to append to this print a brief summary of the University Regulations and of special points relative to their particular course of study. I beg accordingly to ask the favour of your submitting to the Syndicate a request from me for permission to reprint for the purpose indicated the following matters from the Calendar.

(1) An abridgment of the Regulations relating to the Examinations in Arts, with the subjects and Books prescribed:

(2) The dates of these Examinations and of the applications for admission to them:

(3) The names and value of any Scholarships or Endowments available for successful students in Arts.

(4) Some of the question papers of the last Examination in Arts :—

These matters, if appended to our Report, will be of great service to our students. And I may add that being a private print, it will not in my opinion interfere with the sale of the University Calendar.

I shall feel much obliged if you will submit my request to the Syndicate at its next meeting.

I am, &c.,
Sd. W. HASTIE.

ORDERED—

That the Registrar inform the Rev. W. Hastie that the Syndicate cannot give any sanction of the kind asked for, and that he must issue his publication on his own responsibility, which he will no doubt do without making other than a legitimate use of the Calendar.

19. Read an application from Baboo Kedarnath Banerjea, 2nd Clerk, submitting a Medical Certificate and asking for four months' extension of leave.

RESOLVED—

That the leave be granted, and that the present arrangement for carrying on the work of the office continue.

20. Read a letter from Colin Browning, Esq., Inspector-General of Education, Central Provinces, recommending that French be made an optional language for the Entrance Examination of Female Candidates.

ORDERED—

That the Registrar inform Mr. Browning that the Syndicate do not think it desirable to recommend to the Senate such an alteration in the rules for the Examination of Female Candidates as appears to be contemplated in Mr. Browning's recommendation.

21. The following bills of Remuneration were passed :—

Names.	Subjects.	Fixed Fee. Amount.
M. B. and L.M.S. Examinations.		
Dr. K. McLeod, ...	In Anatomy, ...	600 0 0
Dr. C. J. H. Warden, ...	„ Chemistry, ...	350 0 0
Dr. R. C. Chandra, ...	„ Medicine and Midwifery,...	600 0 0
Dr. D. O. C. Raye, ...	„ Surgery and Ophthalmic Surgery, ...	600 0 0
Dr. T. R. Lewis, ...	„ Physiology and Comparative Anatomy, ..	600 0 0
Dr. D. D. Cunningham, ...	„ Botany, ...	300 0 0
Dr. R. Harvey, ...	„ Materia Medica, ...	300 0 0
Dr. C. H. Joubert, ...	„ Pathology and Hygiene,...	300 0 0
Dr. F. C. Nicholson, ...	„ Medical Jurisprudence, ...	250 0 0
Honors in Medicine.		
Dr. R. C. Chandra, ...	„ Midwifery, ...	150 0 0
	Total, Rs. ...	4,050 0 0

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES

OF

THE FACULTY OF MEDICINE

FOR THE YEAR 1881-82.

No. 2.

18TH JUNE.

Present:

DR. H. CAYLEY, *President, in the Chair.*

DR. GEO. KING.
DR. R. HARVEY.
DR. K. MCLEOD.

22. Read the following report of the Committee appointed to propose for the consideration of the Faculty of Medicine such alterations in the Regulations for the Licence in Medicine and Surgery, and for the degree of Bachelor in Medicine as would give practical effect to the resolution proposed by Dr. R. Harvey and seconded by Dr. A. J. Payne at the meeting of the Faculty held on the 3rd of May.

Report of the Sub-Committee appointed by the Faculty of Medicine to consider the best way of rendering the difference between the Degrees of L. M. S. and M. B. more substantial than at present.

1. We are of opinion that, in place of the degrees of L. M. S. and M. B. being, as they are, parallel and distinct medical qualifications, one or other of which students may elect to go in for; possessing moreover a distinct, though almost identical code of regulations and a very slightly different standard of proficiency, the University should grant one license to practise both medicine and surgery—a double qualification, the

L. M. S.—and that all other medical degrees granted by the University should be purely honorary and additional to this license; so that every medical graduate should be licensed; that the attainment of a certain standard of qualification should entitle him to the L. M. S; but that the attainment of a higher standard, to be defined by regulation, should entitle him, *in addition to the L. M. S.* to the higher and purely honorary degree of M. B. and a higher still to M. D. These latter would thus imply the previous possession of the double qualification or License in Medicine and Surgery, and constitute a token of better culture, wider education and more extensive knowledge. It is on this principle that the following suggestions are submitted:

2. The regulations for the License in Medicine and Surgery do not require any alteration, but we think a paragraph should be added defining the percentage of marks which it is necessary to attain in each subject, and another embodying the resolution regarding marks in the practical examination passed at the last meeting of the Medical Faculty, if accepted by the Senate.

3. We would substitute for the present regulations for the degree of Bachelor in Medicine the following:

Bachelor in Medicine.

1. The examination for the degree of Bachelor in Medicine shall be the same as for L. M. S. with the following modifications and additions.

First M. B. Examination.

2. Candidates will be required to produce certificates—

(*a*) Of having passed the First Examination in Arts, Latin having been one of the languages in which he was examined, or of having obtained the degree of B. A.

(*b*) Of having attended—

I. A second course of 20 lectures on Botany and

II. One course of 40 lectures on Comparative Anatomy and Zoology.

3. Candidates will be required to pass an examination in Comparative Anatomy and Zoology.

Second M. B. Examination.

4. Candidates will be examined in General and Comparative Physiology.

5. A fee of 30 rupees shall be payable by each candidate under the same conditions as for L. M. S.

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6. As soon as possible after each examination the Syndicate shall publish a list of the successful candidates arranged in two divisions each in alphabetical order. Candidates who have succeeded in obtaining 75 per cent. of the total number of marks will be placed in the first division.

7. Every candidate is required to obtain 50 per cent. of marks on every subject in both examinations, and in those subjects in which there is a practical examination, no candidate will be held to have passed who has not obtained 50 per cent. of the marks assigned to this part of the examination in that subject.

8. A candidate failing to obtain the requisite number of marks to entitle him to this degree shall, if he has reached the standard laid down for L. M. S., be entitled to that degree. He may, however, subsequently present himself for examination for the degree of M. B. without prejudice to his previously secured license.

9. Any licentiate of three years' standing may be admitted to this degree on paying a fee of 50 rupees, and producing certificates to the following effect:

(*a*) Of having passed the First Examination in Arts, Latin having been one of the languages in which he was examined; or, of having obtained the degree of B. A.

(*b*) Of having attended at a School of Medicine recognized by the Syndicate—

I. A second course of 20 lectures on Botany.

II. A course of 40 lectures on Comparative Anatomy.

(*c*) Of having passed an examination in Comparative Anatomy and Zoology and Comparative Physiology.

(*d*) Of having attained 50 per cent. of the marks which were allotted to each of the subjects in the L. M. S. Examination, and 50 per cent. of the marks assigned to the practical portion of the examination in subjects in which a practical test is laid down.

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4. Para. 16 of the present regulations is a dead letter and might be omitted.

5. The Regulations for Honors in Medicine and Doctor in Medicine do not appear to us to require any change, except that para. 8 of the latter, which is also probably a dead letter, might perhaps be omitted.

K. McLEOD.
D. D. CUNNINGHAM.
ROBERT HARVEY.
TAMIZ KHAN.

CALCUTTA,
10*th June*, 1881.

RESOLVED—

That the Report be circulated to all the members of the Faculty of Medicine for their opinions.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
H. CAYLEY,
President.

MINUTES

OF

THE FACULTY OF ENGINEERING.

FOR THE YEAR 1881-82.

No. 1.

THE 20TH JUNE.

(In Circulation.)

23. Proposed by Mr. H. H. Locke and seconded by Mr. V. Ball.

That Mr. H. Levinge be elected President of the Faculty and Representative in the Syndicate for the remainder of the current year in the room of Major J. Eckford.

CHARLES H. TAWNEY,
Registrar.

MINUTES OF THE SYNDICATE.

FOR THE YEAR 1881-82.

No. 2.

THE 25TH JUNE.

Present:

THE HON'BLE A. WILSON, *in the Chair.*

HON'BLE H. J. REYNOLDS.
THE HON'BLE MAHARAJA JOTINDRA MOHAN TAGORE, BAHADUR, C. S. I.
W. C. BONNERJEE, ESQ.
DR. H. CAYLEY.
J. ELIOT, ESQ.

24. Read the Proceedings of the Faculty of Medicine at their meeting on the 18th June.

ORDERED—

To be recorded.

25. Read the Proceedings of the Faculty of Engineering, dated the 20th June, 1881.

ORDERED—

To be recorded.

26. Read a letter from the Officiating Principal of the Sanskrit College, Calcutta, proposing to omit from para. 2 of the Regulations for the Examination for the degree of M. A. the following words, "on sending to the Registrar (on or before the first of January) an application (specifying the branch in which he desires to be examined) with a certificate of having passed the Examination for the degree of B. A., and," and to add to the same Regulations para. 4 of the Regulations for Honors in Arts, with the object of enabling candidates to take their B. A. and M. A. degrees in the same year.

ORDERED—

That the Registrar inform the Officiating Principal, Sanskrit College, Calcutta, that, as the Senate are now occupied in revising the courses for the F. A., B. A. and M. A. Examinations, it does not at present seem advisable to recommend to them such a change in the Regulations for the Examination for the degree of M. A. as he proposes.

27. Read the following letter from the Registrar of the General Council of Medical Education and Registration of the United Kingdom.

GENERAL COUNCIL OF
MEDICAL EDUCATION AND REGISTRATION
OF THE UNITED KINGDOM,
315 OXFORD STREET, LONDON, W.
May 13th, 1881.

SIR,

I am directed to forward to you to be laid before the University of Calcutta, the following Resolution passed by the General Medical Council at its recent session.

I am, &c.,
Sd. W. J. C. MILLER,
Registrar.

Resolution passed on April 27th, 1881.

"That the Examinations in General Education conducted by Universities be accepted as heretofore, but that if in any of these Examinations the subjects of Elementary Mechanics of Solids and Fluids are not included, a knowledge of these subjects should be required at a subsequent Examination; and that a copy of this Resolution be forwarded to the several Examining and Licensing Bodies concerned."

RESOLVED—

That the letter be laid before the Senate at their next meeting with the intimation that the Syndicate do not recommend any change in the Entrance Examination, but are of opinion that it may be desirable to introduce the Elementary Mechanics of Solids and Fluids into the First Examination in Arts, which all candidates for the Medical degrees of this University are required to have passed.

28. Read the following letter from the Honorary Secretary to the Sutcliffe Memorial Fund.

From

BABU KRISHNABIHARI SEN, M. A.,
Honorary Secretary, Sutcliffe Memorial Fund.

To

CHARLES H. TAWNEY, ESQ., M. A.,
Registrar, Calcutta University.
Calcutta, the 24th June, 1881.

SIR,

I have the honor to inform you that a marble bust of the late Mr. James Sutcliffe, executed in accordance

with a resolution passed at a meeting of the friends, admirers and pupils of the lamented deceased, has arrived in Calcutta.

It was executed in England by Mr. Mullins under the kind supervision of Mrs. Sutcliffe.

The Committee requests me to state that, considering the long services of the deceased in connection with the University of Calcutta, the bust in question can have its appropriate place in the Senate House only; and if the Syndicate be of this opinion, I am to request the favour of your taking steps with a view to provide a suitable place for it therein.

It is hardly necessary to add that the Committee will bear all incidental charges for setting it up.

I have the honor to remain,

SIR,

Your most obedient Servant,

Sd. KRISHNABIHARI SEN,

Honorary Secretary Sutcliffe Memorial Fund.

RESOLVED—

That the Syndicate thankfully accept the bust, and that it be set up on the right hand of that of the late Mr. Woodrow.

29. Read a letter from the Hon'ble C. Grant, C. S., C. S. I., Officiating Secretary to the Government of India, declining to issue orders to the Superintendent of Stationery for the exemption of the Calcutta University from the payment of ten per cent. of the cost of all articles supplied to it.

ORDERED—

To be recorded.

CHARLES H. TAWNEY,

Registrar.

(Confirmed.)

ARTHUR WILSON,

Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 2.

THE 9TH JULY.

Present:

THE HON'BLE ARTHUR WILSON, *in the Chair*.

NAWAB ABDUL LATIF, KHAN BAHADUR.
RAI RAJENDRALALA MITRA, BAHADUR, D. L., C. I. E.
RAJA HARENDRAKRISHNA, BAHADUR.
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. Sc.
A. W. CROFT, ESQ.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
DR. K. MCLEOD.
DR. H. CAYLEY.
THE HON'BLE MAHARAJA JOTENDRAMOHAN TAGORE, BAHADUR, C. S. I.
NAWAB ASHGAR ALI, KHAN BAHADUR, DILER JUNG, C. S. I.
A. W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA.
REV. FATHER E. LAFONT, S. J. C. I. E.
REV. J. E. PAYNE.
A. M. BOSE, ESQ.
BABU KALICHARAN BANERJEE.
W. C. BONNERJEE, ESQ.
REV. JAS. ROBERTSON.
REV. A. F RUDOLF HOERNLE, PH. D.
DR. TRAILOKYANATH MITRA.
REV. W. HASTIE, B. D.
BABU SURYYAKUMAR SARBADHIKARI.
DR. R. HARVEY.
A. M. NASH, ESQ.
BABU GOVINCHUNDER DUTT.
REV. H. FINTER.
BABU KRISHNABIHARI SEN.
REV. K S. MACDONALD.
DR. J. M. COATES.
BABU HEMCHANDRA BANERJEE.
J. WILSON, ESQ.
BABU LALMADHAB MUKERJEE.

30. Mr. W. C. Bonnerjee proposed and Mr. Croft seconded the following motion :—

That the following footnote be appended to the form of Certificate for the degree of Doctor or Master in any Faculty, given in Appendix A.

"In certificates granted to Masters of Arts the following words must be added, *the special branch in which he was examined having been*....."

The motion was carried unanimously.

31. The Senate then proceeded to consider the suggestion of the Faculty of Arts that degrees in Science be instituted, and the revised courses for the F. A., B. A., and M. A. Examinations

recommended by the Faculty of Arts at their meetings on the 25th of March 1878, and on the 10th of April 1880.

Mr. A. W. Croft moved—

That the principle of alternative courses in Literature (A) and Science (B) for the First Arts Examination be adopted.

The Rev. W. Hastie seconded the motion. Mr. A. M. Nash then moved the following amendment:—

That for the words "alternative courses in Literature (A) and Science (B)" the following words be substituted; "A double standard of Examination, *i. e.*, that the Examination be divided into two parts:

1st. A compulsory Pass Examination.

2nd. An optional Examination for Honors."

Babu Krishnabihari Sen seconded the amendment. After a prolonged discussion, the amendment was put to the vote and lost.

The original motion was then put to the vote and lost.

Mr. A. W. Croft then proposed that the meeting be adjourned to 4 P. M. on Saturday the 16th instant.

The Rev. J. Robertson seconded the motion, which was carried unanimously.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 3.

THE 16TH JULY.

Present:

THE HON'BLE ARTHUR WILSON, *in the Chair.*

NAWAB ABDUL LATIF, KHAN BAHADUR.
RAI RAJENDRALALA MITRA, BAHADUR, D. L., C. I. E.
RAI JAGADANANDA MUKERJEE, BAHADUR.
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ.
DR. K MCLEOD.
DR. H. CAYLEY.
A. W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA, C. I. E.
REV. FATHER E. LAFONT, S. J. C. I. E.
REV. J. E. PAYNE.
A. M. BOSE, ESQ.
W. C. BONNERJEE, ESQ.
REV. JAS. ROBERTSON.
REV. A. F. RUDOLF HOERNLE, PH. D.
BABU TRAILOKYANATH MITRA, D. L.
REV. W. HASTIE, B. D.
BABU SURYYAKUMAR SARBADHIKARI.
DR. R. HARVEY.
A. M. NASH, ESQ.
BABU GOVINCHUNDER DUTT.
REV. H. FINTER.
BABU KRISHNABIHARI SEN.
REV. K. S. MACDONALD, M. A.
DR. J. M. COATES.
W. T. WEBB, ESQ.
J. WILSON, ESQ.
BABU LALMADHAB MUKERJEE.

Mr. Croft moved—

> That the number of subjects to be taken up by candidates in the First Arts course be five.

Babu Prasannakumar Sarbadhikari seconded the motion.

The Rev. W. Hastie then proposed the following amendment:—

> That in the resolution proposed by Mr. Croft all the words after the word "that" be omitted, and instead of them the following words be substituted, "the resolution of the Senate rejecting the principle of alternative courses in Literature (A) and Science (B) be intimated to the Faculty of Arts, and that we now proceed to the next business."

Mr. J. Wilson seconded the amendment.

The amendment was put to the vote and lost.

Mr. A. M. Bose then proposed—

"That in the resolution proposed by Mr. Croft all the words after the word "that" be omitted and the following words be substituted for them, "the consideration of this resolution be postponed until the other resolutions of which notice has been given by its mover shall have been disposed of."

The Rev. Father Lafont seconded this amendment.

The amendment was put to the vote and carried. The amended motion was then put to the vote and carried.

Mr. Croft then proposed—

That a classical language be not a compulsory subject.

Mr. W. C. Bonnerjee seconded the motion.

Mr. J. Wilson proposed that the following words be added to Mr. Croft's motion "except for those students whose vernacular is English."

Rai Jagadananda Mukerjee, Bahadur, seconded the amendment.

The amendment was carried.

The amended motion, "That a classical language be not a compulsory subject except for those students whose vernacular is English," was then put to the meeting. The votes being equal, the Chairman gave his casting vote against the motion.

The motion was therefore lost.

Mr. Croft then proposed—

That Logic be not a compulsory subject for the F. A. course.

Dr. McLeod seconded the motion.

Mr. J. Eliot proposed that for the words "not a compulsory subject for" be substituted the words "omitted from."

Dr. Cayley seconded the amendment.

The amendment was put to the vote and lost.

The Rev. J. Robertson then proposed that the words "by itself" be inserted after the word Logic.

Mr. Webb seconded the amendment, which was put to the vote and carried.

The amended motion, "That Logic by itself be not a compulsory subject for the F. A. course" was then put to the vote and carried.

Mr. Croft then proposed that English be a compulsory subject for the F. A. course.

Babu Suryyakumar Sarbadhikari seconded the motion which was carried.

Mr. Croft then proposed that Mathematics be a compulsory subject for the F. A. course.

Nawab Abdul Latif Khan, Bahadur, seconded the motion, which was carried.

Mr. Croft then proposed—

That either Chemistry or Physics be a compulsory subject for the F. A. course.

Nawab Ashgar Ali, Khan Bahadur, Diler Jung seconded the motion.

Mr. W. C. Bonnerjee proposed as an amendment:

That the words "either" and "or Physics" in the resolution be omitted, and that in place of the word "either" be substituted the words "Elementary Physics and."

The amendment was put to the vote and carried.

Dr. Rajendralala Mitra, Rai Bahadur then proposed—

That the words "and Chemistry" be omitted.

The Rev. Father Lafont seconded this amendment, which was carried.

The amended motion, "That Elementary Physics be a compulsory subject for the F. A. course" was then put to the vote and carried.

Mr. Croft then proposed—

That the meeting be adjourned to 4 P. M. on Saturday the 23rd of July.

The Rev. Father Lafont seconded the motion which was carried unanimously.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)

ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 4.

THE 23RD JULY.

Present:

THE HON'BLE ARTHUR WILSON, *in the Chair.*

NAWAB ABDUL LATIF, KHAN BAHADUR.
RAI RAJENDRALALA MITRA, BAHADUR, D. L., C. I. E.
RAJA HARENDRAKRISHNA, BAHADUR.
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
DR. K. MCLEOD.
BABU UMESCHUNDRA DUTT.
NAWAB ASHGAR ALI, KHAN BAHADUR, DILER JUNG, C. S. I.
A. W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA, C. I. E.
REV. FATHER E. LAFONT, S. J.
REV. J. E. PAYNE.
A. M. BOSE, ESQ.
BABU KALICHARAN BANNERJEE.
REV. JAS. ROBERTSON.
DR. A. F. RUDOLF HOERNLE.
REV. W. HASTIE, B. D.
FRED. J. BIDEN, ESQ.
DR. R. HARVEY.
A. M. NASH, ESQ.
REV. H. FINTER.
BABU KRISHNABIHARI SEN.
REV. K. S. MACDONALD.
W. T. WEBB, ESQ.
J. WILSON, ESQ.
BABU LALMADHAB MUKERJEE.

Mr. Croft moved—

> That in each of the two subjects, English and Mathematics, two papers be set to the F. A. candidates.

The Rev. Father Lafont seconded the motion which was carried.

Mr. Croft then moved—

> That in the Classical language two papers be set to the F. A. candidates.

Pandit Maheschandra Nyayaratna seconded the motion.

The Rev. W. Hastie proposed the following amendment:

That in the motion proposed by Mr. Croft all the words after the word "that" be omitted, and the following words be substituted for them, "the consideration of the number of papers to be set in each subject be postponed, until the number of subjects has been decided upon."

Mr. J. Wilson seconded the amendment which was put to the vote and lost.

The Rev. W. Hastie then proposed—

That in the motion proposed by Mr. Croft for the words "two papers" be substituted the words "one paper."

Mr. J. Wilson seconded the amendment which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That in the subject of Physics two papers be set.

Dr. McLeod seconded the motion.

The Rev. Jas. Robertson proposed and Babu Lalmadhab Mookerjee seconded the following amendment:

That in the motion proposed by Mr. Croft all the words after the word "that" be omitted, and that the following words be substituted for them, "the consideration of this motion be postponed until the subjects to be included in the Course be determined.

The amendment was carried.

The amended motion was then put to the vote and carried.

Mr: Croft then moved—

That Psychology be excluded from the First Arts course.

Rai Kanailal De, Bahadur seconded the motion.

The Rev. W. Hastie proposed and Babu Lalmadhab Mookerjee seconded the following amendment:

That in Mr. Croft's motion the words "excluded from" be omitted, and that the words "one of the subjects for" be substituted for them.

The amendment was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That Logic be a subject for the F. A. course.

The Rev. W. Robertson seconded the motion which was carried.

Mr. Croft then moved—

That History be a subject for the F. A. course.

The Rev. Father Lafont seconded the motion which was carried.

Mr. Croft then moved—

That Chemistry be a subject for the F. A. course.

Rai Kanailal De, Bahadur seconded the motion.

The Rev. Father Lafont proposed and Babu Prasannakumar Sarbadhikari seconded the following amendment:

That in the motion proposed by Mr. Croft for the words "a subject for" be substituted the words "excluded from."

The amendment was put to the vote and carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That History and Logic be compulsory subjects for the F. A. course.

The Rev. Father Lafont seconded the motion which was carried.

Mr. Croft then moved—

That two papers be set in the subject of Physics.

Mr. F. Biden seconded the motion which was carried.

Mr. Croft then moved—

That one paper be set in each of the subjects of Logic and History.

The Rev. K. M. Macdonald seconded the motion, which was carried.

Mr. Croft then moved—

That the following standard for the First Arts Examination be adopted.

English, ...	two papers.
Mathematics, ...	two papers.
Classical Language, ...	two papers.

Physics,	two papers.
Logic,	one paper.
History,	one paper.

Raja Harendra Krishna, Bahadur seconded the motion, which was carried.

Mr. Croft then moved—

That the standard in English be that recommended by the Faculty of Arts.

Nawab Abdul Latif, Khan Bahadur, seconded the motion.

The Rev. J. Robertson proposed—

That in Mr. Croft's motion all the words after the words "That the" be omitted, and that the following words be substituted for them:

"determination of the limits in each of the subjects now fixed by the Senate be referred to the Faculty of Arts."

The Rev. Father Lafont seconded the amendment which was lost.

Mr. A. M. Bose proposed that in Mr. Croft's motion all the words after the words "that the" be omitted, and that the following words be substituted for them:

"determination of the limits in each subject be referred to a Committee of the Senate."

Pandit Maheschandra Nyayaratna seconded the amendment which was lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved that the meeting be adjourned to Saturday the 30th of July.

Mr. F. Biden seconded the motion which was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 5.

THE 30TH JULY.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
A W. CROFT, ESQ.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
DR K. MCLEOD.
BABU OMESHCHUNDER DUTT.
A. W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
REV. FATHER E. LAFONT, S J., C. I. E.
A. M. BOSE, ESQ.
REV. JAS. ROBERTSON.
DR. A F. RUDOLF HOERNLE.
REV. W. HASTIE, B. D.
F. J BIRDEN, ESQ.
BABU SURYYAKUMAR SARBADHIKARI.
DR R HARVEY.
A. M NASH, ESQ.
REV. H. FINTER
BABU KRISHNABIHARI SEN.
REV. K. S. MACDONALD.
DR. J M. COATES.
W. T. WEBB, ESQ.
J. WILSON, ESQ.
BABU LALMADHAB MUKERJEE.

Mr. Croft moved that the F. A. course in the Classical Language be that recommended by the Faculty of Arts.

Babu Prasannakumar Sarbadhikari seconded the motion which was carried.

Mr. Croft then moved that the F. A. course in History consist of the outlines of the History of Greece and Rome. Mr. Webb seconded the motion which was carried.

Mr. Croft then moved that the F. A. course in Logic be that recommended by the Faculty of Arts.

Babu Lalmadhab Mukerjee seconded the motion which was carried.

Mr. Croft moved that the F. A. course in mathematics consist of the following subjects—

(*a*) *Algebra.*—Quadratic equations; theory of quadratic equations and expressions; imaginary expressions; arithmetical, geometrical, and harmonical progres-

sions; permutations and combinations; binomial and exponential theorems; partial fractions; and elements of the method of indeterminate coefficients.

(*b*) *Plane Geometry.*—Simple problems in the geometry of the straight line, triangle, and circle, treated according to modern methods. The more important properties of the parabola and ellipse.

(*c*) *Trigonometry.*—Methods of measuring angles.

Trigonometrical ratios, and the simple relations connecting them.
Relations between trigonometrical ratios of angles differing by multiples of right angles.
Trigonometrical transformations.
Solution of triangles.
Properties of triangles.
Area of a circle.
De Moivre's theorem.
Expansion of the sine and cosine of an angle in terms of its circular measure.

(*d*) *Logarithms.*—The properties of logarithms.

Logarithmic series.
The use of logarithmic tables.
Proportional parts.

Mr. Nash seconded the motion.

The Rev. J. Robertson then proposed the following amendment:

That in Mr. Croft's motion after the word "subjects" the words "(a) Arithmetic" be inserted, and that the letters prefixed to the other subjects be changed accordingly.

Mr. A. M. Bose seconded the amendment which was carried.

Mr. Biden then proposed the following amendment:

That under the head of Algebra the words "partial fractions and elements of the method of indeterminate coefficients" be omitted.

The Rev. Father Lafont seconded the amendment which was carried.

Mr. Biden then proposed the following amendment:

That under the head of of Plane Geometry for the words "Simple problems in the geometry of the straight

line, triangle and circle treated according to modern methods" be substituted the words "Euclid as in the present F. A. course."

The Rev. W. Hastie seconded the amendment which was lost.

Mr. Biden then proposed the following amendment—

That under the head of Trigonometry the words "De Moivre's theorem. Expansion of the sine and cosine of an angle in terms of its circular measure" be omitted.

The Rev. Father Lafont seconded the amendment which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That the course in Physics consist of the following subjects:

(*a*) *General Ideas*—

Units of measurement, and definitions of mass, force, motion.
Laws of motion.
Work and energy,—measurement of each.
Chief forces of nature.
General properties of solids, liquids, and gases.
Conditions of equilibrium of a mass acted on by forces.
Motions of translation and rotation.
Pressure of fluids and gases: measurement of pressure.
Equilibrium of floating bodies.
Specific gravity and its determination.
Motion of a pendulum, and of the torsion pendulum or balance.

(*b*) *Heat*—

Laws of expansion of solids, liquids, and gases under heat.
Determination of co-efficients of expansion.
Measurement of temperature.
Maximum density of water.
Changes of molecular state, and latent heat of molecular changes of state.

Influence of change of pressure on the boiling point and melting point.
Regelation.
Laws of pressure of gases.
Elastic force of vapour; dew point, and its determination.
Formation of dew and clouds.
Radiation, conduction and convection of heat.
Phenomena of combustion.
Steam engines.

(c) *Light*—

Laws of transmission of light and of its intensity.
Shadows.
Images produced by small apertures.
Photometry.
Reflection of light.
Refraction of light.
Images by reflection and refraction, and their position.
Critical angle.
Properties of prisms and lenses.
Telescope, microscope, spectroscope, the human eye.
Decomposition of light.

(d) *Frictional Electricity*—

Electrical attractions and repulsions.
Properties of conductors and non-conductors.
Electrical induction.
Electrical force and density.
Electrical distribution on conductors.
Power of points.
Ramsden's and Armstrong's electrical machines.
Condenser; electrophorus; Leyden jar.
Electric discharges.
Atmospheric electricity.

(e) *Dynamic Electricity*—

Voltaic pile, its modifications.
Effects of the current.
Electro-dynamics.
Electro-magnetism.
Voltaic Induction.
Thermo-electricity.

The Rev. Father Lafont seconded the motion.

D. K. McLeod proposed the following amendment:—

That under the head of "General ideas" after the words "pendulum or balance" be inserted the words "Conservation and transmutation of energy," and under the head of "Light," after the words "the human eye" be inserted the words "Principles of binocular vision."

Babu Lalmadhab Mukerjee seconded the amendment which was put to the vote and lost.

Mr. Biden then proposed the following amendment, that for the subjects under the heads "Frictional Electricity" and "Dynamic Electricity" be substituted "Statics and Hydrostatics."

This amendment, not having been seconded, fell to the ground.

The Rev. W. Hastie then proposed the following amendment:—

That the following words be added to the motion—

"Of the last four subjects not more than two shall be set to the candidate at any one examination."

The Rev. H. Finter seconded the amendment which was lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved that the meeting be adjourned to Saturday the 13th August.

Mr. Webb seconded the motion which was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 3.

THE 6TH AUGUST.

Present

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE HON'BLE MAHARAJA JOTENDRA-MOHAN TAGORE, BAHADUR, C S. I.
THE HON'BLE H J. REYNOLDS.
A. W. CROFT, ESQ.
W. C BONNERJEE, ESQ.
DR K McLLOD
J. S. SLATER, ESQ.

31. Read a letter from Dr. H. Cayley nominating Dr. K. McLeod to officiate as a member of the Syndicate during the absence of the former from Calcutta.

ORDERED—

To be recorded.

32. Read a letter from Mr. H. Levinge nominating Mr. J. Slater to officiate as a member of the Syndicate during the absence of the former from Calcutta.

ORDERED—

To be recorded.

33. Read a letter from the Under-Secretary to the Government of India, Home, Revenue and Agricultural Department stating that the Governor-General in Council has been pleased to appoint the undermentioned gentlemen to be Fellows of the University.

The Hon'ble W. Tyrrell, C S.
C. P. Carmichael, Esq , C. S.
B W Colvin, Esq , C. S.
C. Robertson, Esq , C S.
The Ven'ble J Baly.
Surgeon Major J M Coates, M D.
The Very Rev. Father D Van Impe S J
Babu Hemchandra Bannerjee, B L.
Muhammad Yousuff, B L.
W. D Bruce, Esq , C. E.
W. T Webb, Esq , M. A.
J S Slater, Esq.
J Wilson, Esq
Babu Radhikaprasad Mukerjee.
L Schwendler, Esq.
Babu Lalmadhab Mukerjee.

ORDERED—

That the Fellows be distributed as follows:—

C. P. Carmichael, Esq., C. S. B. W. Colvin, Esq , C. S. C. Robertson, Esq., C. S. The Venerable Archdeacon Baly. The Very Rev. Father Van Impe, S. J. W. T. Webb, Esq., M. A. J. Wilson, Esq.	*Faculty of Arts.*
The Hon'ble W. Tyrrell, C. S. Babu Hemchandra Banerjea, B. L. Muhammad Yousuff, B. L.	*Faculty of Law.*
J. M. Coates, Esq., M D. Babu Lalmadhab Mukerjee, L. M. S.	*Faculty of Medicine.*
W. D. Bruce, Esq., C. E. J. Slater, Esq. Babu Radhikaprasad Mukerjee. L. Schwendler, Esq.	*Faculty of Engineering.*

34. Read a letter from the Hon'ble Maharaja Jotendramohan Tagore, Bahadur, C. S. I. offering to the Senate a marble statue of the late Hon'ble Prasannakumar Tagore, C. S. I. and requesting that it may be placed in a prominent place in the Senate House.

RESOLVED—

That the statue be thankfully accepted, and that the question of the site be reserved for future consideration.

35. Read an endorsement from the Director of Public Instruction, Bengal, forwarding a copy of the revised edition of the Puravritta-Sara in Hindi for the consideration of the Syndicate, together with a letter from the Inspector of Schools, Behar Circle, suggesting that the work may be suitable as a text-book for the Entrance Examination.

RESOLVED—

That the book be referred for report to a Committee consisting of the following gentlemen:—

THE REV. K. M. BANERJEE, D. L. RAI RAJENDRA LAL MITRA, BAHADUR, D. L., C. I. E.	THE REV. A. F. RUDOLF HOERNLE, PH. D.

36. Read an endorsement from the Director of Public Instruction, Bengal, forwarding copy of a letter from the Joint Inspector of Schools, Orissa, in which he recommends that an Uriya candidate from the Zila School, Balasore, may be

allowed to write his answers in the Sanskrit Examination in Uriya character.

ORDERED—

That the Registrar inform the Director of Public Instruction, Bengal, that the Syndicate disapprove of the writing of Sanskrit in any other character than the Devanagari, and that consequently the sanction asked for cannot be given.

37. Read a letter from the Director of Public Instruction, Bengal, enclosing a letter from Mr. J. Talboys Wheeler together with a copy of his Tales from Indian History.

RESOLVED—

That the book is not suitable as a text-book in Indian History.

38. The Registrar submitted the results of the Examination in Engineering.

ORDERED—

That the following candidates be gazetted as having passed the Examination successfully.

L. C. E. EXAMINATION.

SECOND DIVISION.

In order of Merit.

1.	Lalitmohan Basak, ...	Govt. Engineering College, Howrah.
2.	Satyacharan Bandyopadhyay, ..	Ditto.
3.	Haripada Ghoshal, ...	Presidency College.
4.	T. B Byers, ...	Ditto.
5.	Prankrishna Sen, ...	Govt. Engineering College, Howrah.
6.	P. W. Byers, ...	Ditto.

39. Read a letter from the Director of Public Instruction, Bengal, forwarding copy of a resolution by His Honor the Lieutenant-Governor of Bengal in the Public Works Department with regard to the Government Engineering College, Howrah, and proposing for the consideration of the Syndicate certain modifications in the University Regulations for the Licence in Civil Engineering and the Bachelor in Civil Engineering.

ORDERED—

That the letter with enclosures be referred to the Faculty of Engineering.

40. Read a letter from the Director of Public Instruction, British Burmah, stating that Dr. Forchhammer is

prepared to correct the proof-sheets of the Abhidammaṭṭha Sangaha, and that the cost of the publication will be borne by the Department of Public Instruction, British Burmah.

ORDERED—

That the Registrar write to the Director of Public Instruction, British Burmah, recommending that the work be printed at the Baptist Mission Press, Calcutta.

41. Read applications from the following graduates to be admitted to the Prem Chand Roy Chand Examination, and to be examined in the subjects mentioned opposite to each—

Asutosh Gupta, ...	Pure Mathematics, Mixed Mathematics, Physical Science, Philosophy, History and Political Economy.
Ramnath Chattopadhyay, ..	Pure Mathematics, Mixed Mathematics, Physical Science, English, History and Political Economy.
Rajendranath Chattopadhyay, ..	Philosophy, Physical Science, English, History and Political Economy.
Narendralal De, ...	Pure Mathematics, Mixed Mathematics, Latin, English, History and Political Economy.
Sáradáranjan Ray, ...	Pure Mathematics, Mixed Mathematics, Philosophy, Sanskrit, History and Political Economy.
Upendranath Maitra, ...	Physical Science, History and Political Economy, English, Philosophy.

ORDERED—

That the applicants be admitted to the Examination.

41. Read a letter from the Director of Public Instruction, Ceylon, requesting to be informed of the conditions upon which the Examinations of the University are held in Ceylon, and enquiring whether the University would permit one or more Central Examinations to be held under the control of the Department of Public Instruction, Ceylon, without reference to the candidates being educated in affiliated Colleges or Schools.

ORDERED—

That the Registrar call the attention of the Director of Public Instruction, Ceylon, to such paragraphs of the Regulations for the Entrance and F. A. Examinations as may be relevant to the questions asked by him, and point out to him that there are already three centres for the Entrance Examination and two for the F. A. Examination in the island of Ceylon.

43. Read a letter from Dr. Thomas F. Pedley, Rangoon, furnishing further particulars with regard to the Diplomas held by him.

RESOLVED—

That the Syndicate cannot recommend the Senate to admit Dr. Thomas F. Pedley to the Examination for the degree of Doctor in Medicine, as he does not appear to hold the certificate of Bachelor of Arts, which this University requires to be held by all candidates for the above-named degree.

44. Read a letter from Nawab Ashgar Ali, Khan Bahadur, Diler Jung, C. S. I. stating that the Muharram festival begins on the 24th of November, and recommending that the Entrance Examination begin on the 14th of November instead of on the 28th.

ORDERED—

That the Entrance and F. A. Examinations be postponed to the 5th of December.

45. The Registrar enquired what inscription was to be put on the pedestal of the bust of the late Sir Cecil Beadon.

ORDERED—

That the Registrar draft an inscription and circulate it to the members of the Syndicate for approval.

46. Read a letter from Colin Browning, Esq., Inspector-General of Education, Central Provinces, requesting that three candidates for the Entrance Examination may be examined this year at Sambalpur, under the superintendence of the Assistant Commissioner.

ORDERED—

That the three candidates named in Mr. Browning's letter be examined this year at Sambalpur, as a special case.

47. Mr. W. C. Bonnerjee proposed that the question of revising the list of prescribed text-books in Law be referred to the Faculty of Law.

ORDERED—

That the Faculty of Law be requested to consider the desirability of revising the list of prescribed text-books in Law.

48. The following remuneration bill was passed.

The remuneration granted to the undermentioned gentlemen for conducting the L. C. E. Examination.

Name.	Subjects	Fixed Fee		
A M Nash, Esq , ...	Mathematics, ...	400	0	0
T H Wickes, Esq ,. .. .. } J White Esq , ... }	Engineering, ...	400	0	0
		400	0	0
Dr C J H Warden, ...	Physical Science, ...	200	0	0
H H Locke, Esq , ...	Drawing, ...	200	0	0
	Total Rs , ..	1,600	0	0

49. The following bills of contingencies were passed :—

1	Bill Superintendent Government Printing for Printing Reports, Minutes, &c , ...	1,220	1	0
„	Superintendent, B M Press for printing Examination paper,	44	0	0
„	Manager, Indian Daily News for Advertisement,.....	3	8	0
„	Proprietor, Indian Mirror for Advertisement, ...	1	10	0
2	„ Collector, Municipal Corporation, House rate, 1st and 2nd Quarters of 1881, ...	225	0	0
2	„ Do Water, Police and Lighting, 2nd and 3rd Quarters 1881,	225	0	0
1	„ Gopal Chundra Gupta, conveyance hire for superintending the last Entrance Examination, ...	12	0	0
1	„ Dusters, &c	1	0	0
1	„ Panka-puller's wages for April, May, June and July, ...	16	0	0
1	„ Garry hire, ...	9	0	0
1	„ Collector of Stamps for Service Stamps,.....	100	0	0
1	„ Pressman during the Engineering Examination,.....	3	0	0
1	„ Bengali Books for last F A. Examination, ...	1	12	0
1	„ Messrs Llewelyn and Co, for the pedestal of the late Sir Cecil Beadon's bust, ...	350	0	0
1	„ Superintendent, B M Press for printing and binding of Calendar 1881-82,.....	1,332	6	0
1	„ Newman and Co , Lithographic Transfer paper, ...	3	0	0
1	„ Repairing furniture, ...	3	8	0
1	„ Sundry expenses during the Engineering Examination,....	10	0	0
	Total Rs , ..	3,560	13	0

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 6.

THE 13TH AUGUST.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

NAWAB ABDUL LATIF, KHAN BAHADUR
RAI RAJENDRALALA MITRA, BAHADUR D. L., C. I. E.
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ.
MUNSHI TAMIZ, KHAN BAHADUR.
DR. K MCLEOD.
NAWAB ASHGAR ALI, KHAN BAHADUR, DILER JUNG, C. S. I.
A. W. GARRETT, ESQ.
J. ELIOT, ESQ.
PANDIT MOHESCHANDRA NYÁYÁRATNA, C. I E.
REV. J. E PAYNE.
W. C. BONNERJEE, ESQ.
REV. JAS. ROBERTSON.
REV. A. F. RUDOLF HOERNLE, PH. D.
REV. W. HASTIE, B. D.
FRED. J. BIDEN, ESQ.
BABU SURYYAKUMAR SARBADHIKARI.
DR. R. HARVEY.
A M NASH, ESQ.
THE REV. K. S. MACDONALD.
J. WILSON, ESQ
BABU LALMADHAB MUKERJEE.

50. The Rev. W. Hastie handed in the following Dissent from the Resolutions adopted by the Senate at their last meeting.

Dissent from the Resolutions of the Senate instituting a new Scheme for the First Arts Examination. Given in at the meeting of 13th August.

"I protest against this new Scheme of Examinations being adopted, and dissent from the Resolutions, more particularly for the following reasons:

First, Because the business in this connection, specially submitted to the Senate, by order of the Vice-Chancellor and in the usual way, was; "To consider *the revised Courses for the F. A., B. A., and M. A. Examinations recommended by*

the Faculty of Arts at their meetings on the 25th of March 1878, and the 10th of April 1880," and these "revised Courses" having been considered and formally rejected by the first Resolution of the Senate of the 9th July, this new Scheme—which was subsequently introduced without notice, which is of a diametrically opposite character to that of the Faculty of Arts and which has been carried substantially in two meetings of the Senate—has gone beyond the business for which the Senate was convened.

Second, Because this new Scheme has not been submitted to the Faculty of Arts for consideration, nor to the Heads of Affiliated Colleges for opinion, as is the custom of the University in similar matters, and as seemed very specially desirable in this instance.

Third, Because the several Resolutions embodying this Scheme were not intimated so as to give time for reviewing their bearings, but were proposed and decided in these meetings without sufficient deliberation being possible, and without the Members of the Senate who happened to be absent having any means of knowing the changes which it was proposed to introduce into the University system.

Fourth, Because the subject of Psychology as Elementary Introduction to Philosophy, a most important element in the existing arrangement, has been excluded from the Examination, without any sufficient reason having, in my opinion, been adduced for doing so.

Fifth, Because by the sudden adoption at this stage of the modern Methods of Geometry in their present indefinite and disputed expositions, and of a very extensive course of Physics (containing something of everything except Acoustics which have been omitted without any explanation in favour of both divisions of Electricity), this Scheme of Examination will either lead to an increase of all the evils of superficial study so long complained of, or, if it be strictly applied, will prove fatal to the progress of a large number of otherwise promising students who have no special liking or capacity for these studies.

Sixth, Because this new Scheme—owing to Psychology having been excluded, a much larger amount of Physical Science introduced, and no option allowed,—seems likely to affect prejudicially the study of Philosophy in the University and consequently the intellectual tendencies, general culture and spiritual life of the Examinees.

I respectfully request that these reasons of Dissent be received by the Vice-Chancellor and Senate, and be recorded on the Minutes of the present meeting."

W. HASTIE.

The Vice-Chancellor moved that the Rev. W. Hastie's Dissent be recorded on the Minutes of the meeting.

Mr. Eliot seconded the motion, which was carried.

Mr. A. M. Nash then moved,

That there be two standards for examination in the B. A. degree, one for a pass and one for honors, and that candidates be at liberty to select either standard.

Mr. Croft seconded the motion.

The Rev. W. Hastie proposed the following amendment that all the words after the word "that" in Mr. Nash's motion be omitted, and that the following words be substituted for them,

"the consideration of Mr. Nash's motion be deferred until the question of the subjects to be selected for the B. A. Examination be disposed of."

Mr. J. Wilson seconded the amendment, which was put to the vote and lost.

The Rev. W. Hastie then proposed the following amendment,

That in Mr. Nash's motion all the words after the word "that" be omitted, and the following words be substituted for them,

"the question of a double standard be referred to the Faculty of Arts for consideration and report."

Babu Suryyakumar Sarbadhikari seconded this amendment, which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. W. C. Bonnerjee then moved—

That this discussion be adjourned to Saturday the 3rd of September and that Mr. A. M. Nash be requested to draw up his Scheme in detail, in order that the Registrar may circulate it to all the members of the Senate.

The Rev. W. Hastie seconded the motion.

Mr. A. W. Croft proposed the following amendment—

That in Mr. Bonnerjee's motion the words "20th of August" be substituted for the words "3rd of September" and that all the subsequent words be omitted.

Mr. J. Eliot seconded the amendment which was carried.

The amended motion was then put to the vote and carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES

OF THE

FACULTY OF ENGINEERING

FOR THE YEAR 1881-82.

No. 2.

THE 17TH AUGUST.

Present:

H. H. LOCKE, ESQ, *in the Chair.*

H. B. MEDLICOTT, ESQ.
V BALL, ESQ.
A. W. CROFT, ESQ.
JOHN ELIOT, ESQ.
J. S. SLATER, ESQ.

51. Read the following letter from the Director of Public Instruction, Bengal, with enclosures.

From THE DIRECTOR OF PUBLIC INSTRUCTION, *To* THE REGISTRAR OF THE CALCUTTA UNIVERSITY, *No.* 5972, *Calcutta, the* 25*th July*, 1881.

SIR,—I have the honour to request that you will be so good as to lay the following representations before the Syndicate :

2. From paras. 1—8 of the accompanying copy of a Resolution by His Honour the Lieutenant-Governor of Bengal in the Public Works Department, No. 2310E dated 15th December 1879, you will see that the opening of the Engineering College at Seebpore (since affiliated with the University) was sanctioned. It was also decided to divide the course of study into two branches, for Civil and Mechanical Engineers respectively, and to extend the course in each from three years to four. In order to carry out these

objects, it was necessary to make certain changes in the course prescribed by the University for the Licence and the Degree in Civil Engineering. The proposed courses are generally indicated in para. 7 of the Resolution referred to; and after a year's experience of the working of the College, they have been adopted with unimportant changes. I have now therefore to inquire whether the Senate of the University will institute two sets of examinations, for Civil and Mechanical Engineers respectively; and will substitute, for the course laid down in para. 5 of the Regulations for the Licence in Civil Engineering, a course corresponding to that now taught in the College, with such modifications as may to the Senate seem good.

3. The changes which have been made in the course originally laid down by the Lieutenant-Governor, are these, (1) The subject of Optics has been struck out, as of little value to an Engineer; and the students will learn as much as they require in that subject from the lectures on light in the Natural Science course. (2) The original course for Mechanical Engineers did not include construction. But it seems now to be agreed that Mechanical Engineers should have some acquaintance with the properties and uses of building materials, and Elementary Engineering construction, just as Civil Engineers should know something of machines and their uses and of the laws of mechanism. I have therefore, in consultation with the Principal of the College, introduced, "materials," and the "Practice of building," into the course for Mechanical, as for Civil, Engineers.

4. I now turn to the differences in detail that exist between the course proposed and the present course. With that object I append to this letter a statement (A) of the subjects of examination which might, if my proposals be accepted, be substituted for paras. 5 and 6 of the Regulations for L. C. E. I have marked with an asterisk the new subjects introduced into the course, which are as follows :—

(*a.*) In the place of Optics have been introduced Analytical Geometry, and the elements of the Differential and Integral Calculus.

(*b.*) Under the head of Natural Science have been added Pneumatics, Acoustics, Light, Electricity and Magnetism, also Geology and Practical Telegraphy.

(*c.*) The history of Architecture, and the study of styles and models has also been introduced.

The object has been to extend the Mathematical and Physical knowledge of the students, so as to give them an education equal to that which is supplied in the best schools of Engineering on the continent of Europe. The added subjects, it is presumed, will fully occupy a further year of study.

5. I also append a statement (B) which might form paras. 5 and 6 of corresponding Regulations for the "Licence in Mechanical Engineering." The statement shows what subjects are common to the two proposed courses, and what are distinct. It will be seen that, in this course, great stress is laid on the study of Mechanism, Machine designs, workshop appliances, the Steam Engine, and Hydraulic Engineering.

6. I also append two lists (C) and (D), showing textbooks recommended for the two courses, which might be included in the Calendar under appendix B.

7. I further recommend that Pure and Applied Mathematics be combined into one subject of examination, and that it may be declared sufficient for a candidate to give the prescribed proportion of marks in these two subjects jointly.

8. In order to explain more fully the purpose and scope of the College course as now established, I may add, firstly, that every student works in the shops for three hours every day. Secondly, that during his fourth year, each student will be employed in preparing a detailed project corresponding to the kind of work that will fall to him in his professional career: Civil Engineer students, a project for a road, canal, railroad, or drainage scheme; and Mechanical Engineers, a complete design for a factory or workshop. Those who fail to satisfy the College authorities in this subject will not be permitted to appear at the University Examination. Thirdly, that after passing the University Examination, the students will be engaged for a year more (the fifth) solely in practical work; and in reference to para. 8 of the Resolution already quoted, I am to ask that no student, after passing the examination for the Licence or Degree, may receive the certificate or be admitted to the degree, until he can produce a certificate, signed by the Principal of the College, that he has completed the full course of practical training.

9. The College Session begins in February of each year, and ends in the following January. I therefore beg,

that, if such a course is in any way practicable, the examination for Engineer candidates may be held on or about the 1st Monday in February, instead of, as now, in June.

I have the honour to be,
Sir,
Your most obedient Servant,
A. CROFT,
Director of Public Instruction.

No. 2310E.

Extract from the Proceedings of the Hon'ble the Lieutenant-Governor of Bengal in the Public Works Department (Establishments), under date the 15th December 1879.

READ—

The report of the Committee appointed to consider the question of the establishment of an Educational and Practical Training Institution for Engineers at the Presidency in connection with the Public Works Department workshops.

Read again—

Proceedings of this Department for January 1878 (Establishments), No. 1A, being a resolution by the Lieutenant-Governor in this Department, appointing a Committee to consider and report on the measures necessary to establish the Practical Training School for Engineers at the Presidency.

RESOLUTION.—The establishment of a Practical Training Institution in Calcutta for Civil and Mechanical Engineers has for some time been under the consideration of this Government. An experiment has already been made in this direction by allowing passed students of the Civil Engineering classes of the Presidency College to join the workshops of the First Calcutta Division and the Akra Brick Manufactory for a two years' course of technical instruction; and the result has shown that there is a demand for such instruction, and that native youths of the middle class and of high caste will, without hesitation, work willingly with their own hands at the forge and at the lathe, in the carpenter's shop and in the brickfield, exactly as European apprentices would do.

2. This fact having been established, a Committee was appointed in January 1878 to consider and report what

measures it was necessary or desirable to take for the establishment of a technical school to be connected with the workshops and manufactories of the Public Works Department at the Presidency. The Committee was further to consider whether it would not be desirable to remove the Civil Engineering branch of the Presidency College to the neighbourhood of the new institution, so that the two might be worked together, and theoretical instruction be combined with thorough practical technical training; and it was added that the necessity for constructing new workshops at the Presidency made it a convenient time for taking up the whole question, and for considering the best situation for the new institution, and the nature and extent of the buildings required.

3. The Committee unanimously recommend that the Civil Engineering Branch of the Presidency College should be incorporated with the proposed institution, the whole forming one great Technical School for the training of engineers and mechanics; but that the theoretical and practical branches should be under entirely independent management, the supervision and control of the former resting with the Educational Department, and that of the latter with the Public Works Department.

4. Meanwhile, the question of site was disposed of by the selection of premises at Seebpore near Howrah, and by the acquisition of a large area of land on the river bank immediately above those premises.

5. Arrangements are in progress for the purchase of these premises which are suited for a College, and already workshops have been constructed on the land adjoining on a scale that will, in the opinion of the Committee, fully meet the requirements of an engineering college and technical school in its earlier stages, and will admit of expansion hereafter to any extent that may be required.

6. In regard to the organization of the proposed institution, the Committee recommend that, at first, the following four classes of pupils should be trained:—

(1) Civil Engineers,	(3) Civil Overseers,
(2) Mechanical Engineers,	(4) Mechanical Overseers;

and that a fifth class for draftsmen and a sixth for the improvement of skilled workmen, corresponding to the mistry class at Roorkee and to Colonel Hyde's class at the Mint might be usefully established. That pupils for the

two higher classes should be admitted up to the age of 19 on producing a certificate of having passed the University Entrance examination; that for the third class they should enter between the ages of 15 and 17, and for the fourth class up to 16; but that the restriction as to age should be relaxed on sufficient cause being shown.

7. The course for Civil and Mechanical Engineers should, in the Committee's opinion, be as follows :—

COURSE FOR CIVIL ENGINEERS.

I.—*Pure Mathematics.*

Arithmetic and Algebra. Plane Geometry and Conic Sections. Practical or Descriptive Geometry.	Trigonometry, Logarithms and Mensuration. Differential and Integral Calculus.

II.—*Applied Mathematics.*

Energy and Work. Statics and Dynamics.	Hydrostatics and Hydrodynamics. Optics.

III.—*Physics.*

General Physics. Chemistry and Heat.	Physical Geography, Mineralogy, and Geology. Telegraphy.

IV.—*Drawing.*

Isometrical, Orthographic, and Perspective. Mechanical drawing.	Plans and Surveys. Free-hand drawing.

V.—*Architecture.*

History of Architecture.	Study of styles and models.

Acoustics.

VII.—*Surveying and Engineering.*

Estimating. Construction. Earthwork, Roads, and Railways.	Hydraulic works. Carpentry and Mechanism. Strength of materials.

Surveying and Geodesy.

This theoretical course should be got over in four years. The practical work during these years would consist of three hours' daily training in the carpenter's and pattern shop, the smithy, the foundry, and the fitting shop, in which the pupils should go through the full Whitworth course. Thus, in the carpenter's shop they would learn how to set and use the axe, saw and plane, hammer and chisel, and to execute all the different joints used by carpenters and joiners; they should also learn the use of the various machine tools employed in the conversion of wood. In the smithy they should

be taught forging, welding, the use of the file, and making simple tools. In the foundry they should learn the method of making patterns, moulding, and casting. In the fitting shop they should learn the use of the simple tools commonly employed, as well as of machine tools, and the method of fitting together the parts of machinery, steam-engines, &c.

In the cold seasons of the second, third, and fourth years, the students should go on survey parties, as the students of the Civil Engineering College do at present. The last year should be spent partly at Akra to learn brick-making, and partly on works in actual course of construction, in which a certain amount of work and responsibility of various kinds should be given to the pupils, and on which they would have an opportunity of learning masonry, brick-laying, &c., as well as the management of work-people and the keeping of accounts.

COURSE FOR MECHANICAL ENGINEERS.

I.—*Pure Mathematics.*

Arithmetic and Algebra.	Trigonometry, Logarithms, and Mensuration.
Plane Geometry and Conic Sections.	Differential and Integral Calculus.
Practical or Descriptive Geometry.	

II.—*Applied Mathematics.*

Statics and Dynamics.	Energy and work.
Kinematics.	Hydrostatics and Hydrodynamics.

III.—*Physics.*

Chemistry and Heat.	Mineralogy.
Electricity and Magnetism	Telegraphy.

IV.—*Drawing.*

Free-hand drawing.	Architectural drawing.
Mechanical „	Geometrical projections.

V.—*Mechanism.*

Mechanical Technology.	History of Inventions.

VI.—*Machines and Engineering.*

Prime-movers and steam-engines.	Strength of materials.
Hydraulic machinery.	Metallurgy.

Designs of factories.

The pupils should go through the same preliminary course of practical training as the civil engineers, working three hours a day in the workshops; but in the later years of the course their attention should be particularly directed to the working up of iron and steel, and to the use of all forms of hand and engine tools employed in the making of machi-

nery. If time could be spared, it would be very desirable that, during one cold season, they should work with the civil engineering students on a survey party.

They should, during their course, be frequently exercised in designs of machines and the preparation of complete drawings, specifications, and estimates. If possible, they should, during the fifth year, be deputed to some large engineering work in progress, on which they might have some definite occupation and responsibility. If no such opportunity offered itself, they would spend their fifth year also at the institution, and would be employed in supervising actual work in the shop.

8. The Committee further recommend that students in the civil and mechanical engineering classes should present themselves for the corresponding examinations of the University at the end of their fourth year; but no candidate, after passing this examination, should be admitted to a degree unless, at the end of the fifth year, he can produce a certificate from the Principal of the Institution, stating that he has completed the full course of practical training. This certificate would be given by the Principal upon the report made by the Superintendent of the Workshops, and by any other executive engineer under whom the student has been placed, as to his practical attainments. It must be observed, however, that, as the courses of study and the procedure recommended above differ in many respects from those now in force, it will be necessary to ask the Senate of the University to modify their regulations accordingly.

9. Civil overseers (class 3) will consist of young men seeking to qualify themselves for the upper subordinate establishment of the Public Works Department and analogous positions; and mechanical overseers (class 4) of those desirous of being trained as skilled mechanics to take charge of machinery in manufactories, and of marine and locomotive engines, &c., &c. The Committee recommend that the term of years for the full course should be for these lower classes the same as for the higher classes, *viz.*, five years; but that the theoretical standard should not be so high, and that the period of practical training should be extended from a year to a year and a half. For both these classes there should be a qualifying Entrance Examination in English, a vernacular language (colloquially), arithmetic, algebra to simple equations, and two books of Euclid. Any candidate who had passed the University Entrance Examination in the

subjects of English and mathematics should be admitted without further test.

10. The course for the lower classes will be as follows :—

CIVIL OVERSEERS.

I.—*Mathematics.*

Arithmetic and Algebra.	Trigonometry and Mensuration.
Modern Geometry.	Statics and Dynamics.

II.—*Physics*

Elementary Chemistry.

III.—*Drawing.*

Orthographic projections.	Architectural drawing.
Scales and figures.	Topographical drawing.

IV.—*Surveying.*

Theodolite.	Compass and plane-table.
Box sextant.	Levelling.

V.—*Engineering.*

Estimating and designing.	Strength of materials.

Construction.

This course should take about three and a half years, during which the students should spend four hours daily in the workshop. The practical training for civil overseers should be similar to that proposed for civil engineers; but the overseers should be sent to Akra in the fourth year, and the whole of the fifth year should be spent on works in progress.

MECHANICAL OVERSEERS.

I.—*Mathematics.*

Arithmetic and Algebra.	Plane Trigonometry and Mensuration.
Modern Geometry.	Statics, Dynamics, and Hydrostatics.

II.—*Natural Science.*

Chemistry.	Experimental Physics.
Physical Geography.	Metallurgy.

III.—*Drawing.*

Orthographic Projections.	Drawing of machinery from models and actual machines.
Practical Geometry.	
Free-hand drawing.	

IV.—*Mechanical Engineering.*

Estimating.	Strength of materials.
Applied mechanics.	Mechanism.

The Steam Engine.

This theoretical course should be completed in three and a half years, and during this period the pupils should spend four hours daily in the workshops. The last year and a half of their apprenticeship should be spent entirely in the workshops.

11. The Committee also, with regard to mechanical overseers (class 4), draw attention to the fact that the Board of Trade regulations require that every person who is employed as an engineer on a steamer shall have served a full term of apprenticeship to his trade. On these and other grounds it is necessary to provide that the students in the mechanical overseer class should be apprenticed to be Superintendent of the Workshops, and be subject to all the legal conditions relating to apprentices. The departmental examinations of civil and mechanical overseers should be held at the end of their theoretical course; but the final certificate, which should be given by the Principal of the College and the Superintendent of the Workshops jointly, should be withheld until the satisfactory completion of the practical course.

12. The class of draftsmen (class 5) proposed by the Committee would be attached to the educational branch of the institution and would provide for the training of a superior class of draftsmen and estimators; and no draftsman would receive a certificate until he had shewn himself qualified not only to prepare designs and detailed drawings, but also to take out the detailed quantities and to prepare estimates from them. This class would require no workshop training, but it would probably be found desirable to train some draftsmen in the preparation of mechanical working drawings. In the mistry or artizan class (class 6), instruction in rough mechanical drawing and the use of scales, together with arithmetic, elementary geometry, and the mechanical powers, would be given free of charge to apprentices, artizans, and mechanics, whether European, East Indian, or native, and whether employed in the shops or outside.

13. The Lieutenant-Governor approves of the recommendations of the Committee, but he would, in addition, form a small vernacular class for the sons of artizans and mistries; these boys would work regularly in the shops, and would have only a few hours' school training in the vernacular.

14. In regard to the charge for education at the institution, the Lieutenant-Governor has decided, after careful

consideration, that the fee for the two higher engineering classes shall be Rs. 8 per mensem during the four years of their instruction in class, but that existing students of the Civil Engineering Department of the Presidency College, who may elect one of the engineering courses in the new institution, may be allowed to continue their studies on a payment of Rs. 5 a month. For civil overseers the charge will be Rs. 3 per mensem during the 3½ years of their instruction in class, and for draftsmen the fee will be the same. No fee will be charged to any student after the completion of his theoretical course. The mechanical overseer class will consist exclusively of regular apprentices, who must be boarders; and the charge will be for Europeans and Eurasians up to 30 in number Rs. 5 each per mensem, and for natives up to 40 in number Rs. 3 per mensem; but apprentices may be received in excess of that number on payment, if Europeans or Eurasians, of the full fee of Rs. 15 per mensem, and if natives of Rs. 8 per mensem. Existing Dehree students who join the institution will be allowed to continue on the terms on which they were originally received.

15. No charge will be made for instruction to skilled workmen in the mistry or artizan class, or to those boys who join the class for the sons of artizans.

16. The Lieutenant-Governor has decided that one scholarship of Rs. 20, three of Rs. 15, and six of Rs. 10, tenable for two years, shall be given annually to students entering the engineer classes of the institution; and that scholarships of the same number and value shall be again competed for at the end of the second year's course; provided that the number of scholarships awarded does not exceed one-half the number of candidates presenting themselves for examination. These scholarships will be given independently of the scholarships now open to those who pass the Entrance Examination at the University. For the civil overseer classes ten scholarships of Rs. 7 per mensem, tenable for 3½ years, subject to diligence and good conduct, will also be granted annually; provided, as in the engineer classes, the number of scholarships awarded does not exceed one-half the number of candidates.

17. In lieu of the five stipends of Rs. 50 a month, tenable for two years, which are at present given to the best five students of the Civil Engineering College who pass the

the final examination, either ten stipends of Rs. 50, or else four of Rs. 50 and ten of Rs. 30 each, will be granted to those engineer students at the new institution who pass the best examination at the end of the fourth year. Similarly, at the end of the 3½ years' course of civil overseers, either ten stipends of Rs. 20, or else four of Rs. 20 and ten of Rs. 12, tenable for 1½ years, will be granted. These stipends will be paid by the Public Works Department, and will be liable to forfeiture in case of misconduct.

18. To mechanical overseers, as apprentices, the system of scholarships will not be applicable. An equivalent for this will be provided by allowing those who make the best progress a share in the value of the work done by them after the expiration of the first year of their apprenticeship.

19. It will be obligatory in the case of apprentices (class 4) that they should board on the premises; and the boarding system will be extended as far as possible, so as to include all other students who may desire to take advantage of it. Any boarding-house that may thus be established for other than apprentices will be conducted on the principle of paying its own expenses, rent only excepted. It is hoped that a boarding charge of Rs. 20 a month for Europeans and Eurasians in the engineer classes, and Rs. 15 in the overseer classes, and a uniform charge of Rs. 8 for the native boarders will be found sufficient.

20. It is believed that the buildings which it is intended to purchase will furnish considerable room for boarders after every necessary provision has been made for class-rooms and other similar accommodation. In addition to this, the Lieutenant-Governor believes that it is the intention of a native nobleman, with characteristic liberality, to build a special residence on the premises for the reception of lads from the mofussil who come to join the engineering classes.

21. The financial aspects of the scheme may thus be briefly summarized. In the Educational Department there will be an estimated excess outlay of Rs. 11,644 nett in the first year, which will increase to Rs. 13,244 in the fourth year, when the charge will remain constant. This sum has been arrived at after allowing for the fee receipts from the new institution amounting to Rs. 3,720 more than the fees at present received from the students in the Civil Engineering College, and to a saving of Rs. 3,176 by closing the Dacca Artizan School, which school will no longer be required on the opening of the proposed institution. In the

Public Works Department there will be an excess expenditure of Rs. 6,128 after allowing for a saving of Rs. 18,000 by closing the Dehree school. The total additional cost of the institution is therefore estimated to amount to Rs. 17,772 in the first year, and to Rs. 19,372 in the fourth and subsequent years.

22. It must be clearly understood that the Lieutenant-Governor does not guarantee an appointment in the public service to any one trained in the institution; but he will select the most distinguished students and the most capable apprentices to fill such vacancies as may arise, and will not appoint men in this country to the Public Works Department, or to district appointments, who have not been trained in this school, as soon as qualified men are obtainable from this source.

23. The Lieutenant-Governor believes that this institution will do more good to the people of this country than any school which has yet been established. It will give native boys of all classes the means of obtaining a thoroughly practical education, and will enable them to leave the beaten track of clerical and ministerial service, for which alone they now care to qualify themselves, and will open to them a large and lucrative professional career. At the same time it will provide a suitable and useful training to European and Eurasian boys in this country, and place them in a position to earn an honorable livelihood in a profession for which they are well adapted.

ORDERS.—Ordered that a copy of this Resolution be forwarded to the Educational and Financial Departments of this Government for information, and with a view to carry out the arrangements now sanctioned as early as practicable in communication with this Department.

Ordered that a copy of this Resolution be forwarded to the Irrigation Branch of this Department for information with regard to the transfer of the Dehree Training School to the above Institution.

Ordered that a copy of this Resolution be forwarded to the Mint Master, Calcutta, for information.

Ordered, also, that a copy of this Resolution be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal.
A. CADELL, *Major-General*, R. E.,
Secretary to the Govt. of Bengal, P. W. Dept.

A.

Licentiates of Civil Engineering.

5. Every candidate shall be examined in the following subjects:—

I. Pure and mixed Mathematics.

II. Natural Science.

III. Engineering construction.

IV. Geodesy.

V. Drawing.

I.—PURE AND MIXED MATHEMATICS.

Arithmetic.—The whole.

Algebra.—To the Binomial Theorem (omitting scales of notation) Exponential Theorem and Logarithms.

Geometry and Conic Sections.—Books I, II, III, IV, and VI, and XI to prop 21 with deductions, Conic Sections treated Geometrically.

Trigonometry.—As far as the solution of all cases of plane triangles. De Moivre's Theorem, Exponential values of Sine and Cosine.

Mensuration.—Mensuration of surfaces and solids.

**Differential Calculus.*—Differential Coefficients of simple and complex functions, successive differentiation, Differential functions of two variables, functions of functions. Implicit functions. Taylor's and Maclaurin's Theorems. Maxima and Minima, values of functions of one variable.

**Integral Calculus.*—Integration of Simple functions, Rational fractions.
Formulæ of reduction.
Double Integration.
Lengths of curves.
Areas of curves and Surfaces.
Volumes of Solids.
Differentiation of an Integral.

**Analytical Geometry.*—Equations of the straight line, circle, ellipse, hyperbola and parabola, without reference to the general equation of the 2nd degree.

Statics.—Parallelogram and triangle of forces, Resultant of parallel forces, Couples, Moments, Equilibrium, Conditions of equilibrium of any forces acting on a particle or rigid body. Centre of parallel forces, Centre of gravity, Friction, Simple cases of tension of Strings, Levers, Pulleys, Wheel and Axle, Inclined plane, Screw, Virtual work.

Dynamics.—Definition and measurement of mass, force, velocity, acceleration, momentum, work and energy. Laws of motion, Uniform motion, Uniformly accelerated motion in a straight line, parabola and circle. Relative motion. Simple cases of Impact.

Hydrostatics.—Equilibrium of fluids, Specific gravity, Equilibrium of floating bodies, Centre of pressure, Elastic fluids, Principles of Barometer and Thermometer, and application to determine heights of Mountains; of the air-pump, Condenser-Pump, siphon, Hydrostatic press, and the Hygrometers.

II.—NATURAL SCIENCE.

**Physics.*—Pneumatics, Acoustics, Light, Heat, Electricity, and Magnetism.

Chemistry.—Inorganic Chemistry, The metals and non-metals.

Mineralogy.—The form of minerals. The physical, optical, and chemical character of minerals. The distribution of minerals, Paragenesis.

**Geology.*—General principles, Classification of animal and vegetable life, Igneous, Metamorphic, Fossiliferous and Volcanic Rocks. The Palæozoic, Mesozoic, and Cainozoic periods.

Physical Geography.—With special reference to that of India.

**Telegraphy.*—Electrical terms. The Battery, Signalling instruments, Circuits, Special telegraphy, Construction, Faults, Testing, Commercial telegraphy, Recent Improvements.

III.—ENGINEERING CONSTRUCTION.

Materials.—Structure, Classification and Characteristic qualities of Building Stones, Artificial Stones, Quarrying and Blasting, Preparation of bricks and tiles, Cementing materials, Plasters, Paints and Varnishes, Properties and preservation of timber, Iron and Steel, Lead, Copper, Zinc and the common Alloys.

Practice of Building.—Brick and stone masonry, Earth-work, Carpentry, Foundations, Walls, floors and roofs of Buildings, Construction of masonry, wooden and iron bridges, Construction and maintenance of Roads, Construction of Railroads and Railway appliances.

Hydraulic Engineering.—Canal and River Engineering, River training and improvements, Flow of liquids through orifices, Flow of liquids in pipes. The movements of water in Canals and Rivers, Flow of water over weirs and waste weirs, Afflux of fluids caused by obstructions, Water-wheels and Turbines, Storage of water, Supply of water to towns.

Applied Mechanics.—Direct stresses, Bars and Pillars of various forms in tension and compression, Transverse strain, Deflection of Beams, Resistance to torsion, The equilibrium, stability and strength of Framed Structures, Stability of suspension Bridges, Theory of Earth pressure, and Resistance of Block-work structures.

Mechanism.—Elementary forms of Machines, Levers, Cranks, Rolling Contacts, Sliding Contacts, Mechanism for modifying motion, Accumulation and regulation of motion.

Steam-Engine.—Measurement of heat, Joule's equivalent, Indicators and Indicator diagrams, Boilers, Heating surface, injectors, and all other parts of high and low pressure Engines.

Designs.—An original design for a work on a given data, with report, specification and estimate.

**Architecture.*—History of Architecture, Study of Styles and models.

IV.—GEODESY.

Use of the scales, Prismatic Compass, Pocket Sextant, Level, Theodolite, and Plane-table.

Topographical Surveying of limited areas.

Practice of Levelling. Route Surveying and laying out curves. (Attested surveys, executed by the candidate will be submitted to the Examiners to which marks will be assigned.)

V.—DRAWING.

Geometrical, Mechanical, Engineering, Architectural, Isometrical, Perspective, Topographical, and Free-hand drawing. (Attested specimens of each kind to be submitted to the Examiners, in addition to the specimens to be executed during the examination, to which marks will be assigned.)

6. The examination shall be conducted by means of printed papers, and a paper of questions shall be set in each of the following subjects :—

1.—*Mathematics.*

Arithmetic and Algebra.
Trigonometry and Mensuration.
Plane Geometry and Geometrical Conic sections.
Statics and Dynamics.
Analytical Geometry and Hydrostatics.
Differential and Integral Calculus.

2.—*Natural Science.*

Light, Heat, and Acoustics
Electricity, Magnetism and Telegraphy.
Physical Geography and Chemistry.
Mineralogy and Geology.

3.—*Engineering Construction.*

Roads and Railways.
Materials of Construction.
Details of Construction and Architecture.
Applied mechanics and Stability of Structures.
Hydraulics and Hydraulic Engineering.
Mechanism and Steam Engine.

4.—*Geodesy.*

5.—*Drawing.*

B.

Licentiates of Mechanical Engineering.

5. Every candidate shall be examined in the following subjects :—

I. Pure and Mixed Mathematics.
II. Natural Science.
III. Mechanical Engineering.
IV. Geodesy.
V. Drawing.

I.—MATHEMATICS.

The same as laid down for L. C. E. and B. C. E.

II.—NATURAL SCIENCE.

Physics.—The same as laid down for L. C. E. and B. C. E.
Chemistry.—The same as laid down for L. C. E. and B C. E.
Mineralogy.—The same as laid down for L. C. E. and B C. E.
Telegraphy.—The same as laid down for L. C. E. and B. C. E.
Metallurgy.—The metallurgy of Iron, Steel, Tin, Copper, Lead, Zinc, Mercury, Silver and Gold.

III.—MECHANICAL ENGINEERING.

Materials, Practice of Building, Mechanism.—The same as laid down for L. C. E. and B. C. E.
Machine design.—Mode of designing Riveted joints, Fastenings, Journals, Pivots, Axles, Shafting, Bearings, Strength and form of toothed gearing, Belt and rope gearing, Link-work, Pistons, Stuffing Boxes, valves and cocks.
Workshop appliances.—Measures of length and methods of measuring. Hand tools for wood and metals, Forming straight edges and surface plates. Foot and power Lathe, Machinery for Drilling, Boring, Planing, Shaping, Slotting, Punching, and Shearing, Distribution of motive power to machine tools.
Steam Engine.—The Steam Engine as viewed under a knowledge of the doctrine of Latent Heat, with history of improvements and alterations in original theories, Combustion of fuel, Heat Engines. The conversion of motion, Indicators and details of Construction, Boilers, Compound Cylinder Engines, Miscellaneous details.
Applied Mechanics.—As laid down for L. C. E. and B. C. E.
Estimating.—Estimating cost of machines and structures.
Designs.—Designs of Factories and Workshops with arrangement of machinery.
Hydraulic Engineering.—Hydraulic machinery, Flow of water in pipes.

IV.—*Geodesy.*

The same as laid down for L. C. E. and B. C. E.

V.—*Drawning.*

The same as laid down for L. C. E. and B. C. E. with special attention to the drawings of machines in the workshops.

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6. The examination shall be conducted by means of printed papers, and a paper of questions shall be set in each of the following subjects.

Mathematics.

Arithmetic and Algebra.
Trigonometry and mensuration.
Geometry and Conic sections.

Statics and Dynamics.
Analytical Geometry &
Hydrostatics.
Differential and Integral Calculus.

Natural Science.

Light, Heat and Acoustics.
Electricity, Magnetism, and Telegraphy.
Mineralogy and Chemistry.
Metallurgy.

Engineering.

Roads and Railways, Materials of Construction.
Applied mechanics and Stability of Structures.
Hydraulic Engineering and Designs
Mechanism and Machine design and Workshop appliances.
Steam Engine.

Geodesy.

Drawing.

C.

The following text Books are recommended for L. C. E. and B. C. E. :—

Todhunter's large Algebra, chapters I to XXVIII, and XXX to XXXVI, and XXXVIII to XXXIX inclusive.
Todhunter's Trigonometry, chapters I to XIX.
Moore's Mensuration.
Todhunter's Euclid.
" Differential Calculus, chapters I to VIII, XI to XII.
" Integral " " I to VIII.
" Analytical Geometry " I to XII
" Mechanics for Beginners.
Besant's Elementary Hydrostatics, chapters I to VII.
Drew's Geometrical Conic Sections.

Natural Science.

General Physics as in Ganot.
Roscoe's Elementary Chemistry, as far as organic Chemistry.
Physical Geography as in Blanford and Geikie.
Ramsay's Mineralogy (Weale's series).
Lyell's Student's elements of Geology.
Preece and Sivewright's Telegraphy.

Engineering Construction.

Roorki Treatise, Vols. I, II and III.
Encyclopædia Britannica, article "Architecture."
Downing's Hydraulics.
Goodeve's Mechanism.
" Text book of the Steam Engine (portions to suit the course).

Geodesy.

Roorki Treatise on Surveying (omitting the portion on practical Astronomy).

D.

The following Text Books are recommended for L. M. E. and B. M. E.

Mathematics—as for L. C. E. and B C. E.
Natural Science—as for L C. E. and B. C. E. where the courses are the same, and Greenwood's Metallurgy.
Mechanical Engineering—Goodeve's Mechanism.
" Text Book of Steam Engine.
Unwin's Elements of Machine design.
Shelley's Workshop appliances.
Roorki Treatise, Vol. III.
Geodesy—as for L. C. E. and B. C. E.

RESOLVED—

That the Faculty are of opinion that there should be a preliminary examination for candidates for the Licence in Civil Engineering, and also for candidates for the Licence in Mechanical Engineering. This preliminary examination should be identical for both sets of candidates. It might be called the first Examination in Engineering.

Any undergraduate of the University should be admitted to this examination, provided he have prosecuted a regular course of study in a school of Engineering recognised by the Syndicate for two years and six months after passing the Entrance Examination.

The object, which the Faculty have in view in recommending the holding of a preliminary examination at this stage, is to relieve the candidates from the burden which would otherwise be imposed upon them by having to pass at one time an examination in a large number of subjects, some of which be it observed, are of a strictly professional, others of a non-professional character. The Faculty are decidedly of opinion that the Examination in Engineering, as it has hitherto been conducted, involving, as it does, the attendance of the candidates for eight days, with the interval of one Sunday only, imposes a severe strain upon their bodily and intellectual powers.

Candidates, who succeeded in passing this first or preliminary Examination, would be qualified for presenting themselves in due course for the Examination for the Licence in Civil Engineering, or for the Examination for the Licence in Mechanical Engineering. Any undergraduate should be admitted to either of these examinations, provided he have

prosecuted a regular course of study in a school of Engineering recognised by the Syndicate, for not less than one academical year after passing the first (or preliminary) Examination in Engineering.

The subjects for the First Examination in Engineering should be as follows:—

(A.) MATHEMATICS.

1. Arithmetic and Algebra.
2. Plane Geometry and Geometrical Conic Sections.
3. Trigonometry and Mensuration.
4. Statics and Dynamics.
5. Analytical Geometry and Hydrostatics.

(B.) NATURAL SCIENCE.

1. Chemistry.
2. Light and Heat.
3. Electricity and Magnetism.

(C.) ENGINEERING.

Materials of construction.

(D.) GEODESY.

Surveying.

(E.) DRAWING.

1. Free hand Drawing.
2. Projection. (*a*) Orthographic. (*b*) Isometric. (*c*) Perspective.

The subjects for the Examination for the Licence in Civil Engineering should be the following:—

(A.) MATHEMATICS.

Differential and Integral Calculus.

(B.) NATURAL SCIENCE.

Mineralogy and Geology.

(C.) ENGINEERING.

Roads and Railways.
Details of Building Construction.
Applied Mechanics and Stability of Structures.
Hydraulics and Hydraulic Engineering.
Mechanism and the Steam-Engine.

(D.) DRAWING.

Engineering and Architectural Drawing.

The Faculty would also leave it open to any candidate to present himself for examination in one or more of the following optional subjects, proficiency in which should, in

their opinion, affect his place in the division list, but should not be counted towards a pass.

OPTIONAL SUBJECTS

(A) MATHEMATICS

Pure Mathematics.
Mixed Mathematics

(B) NATURAL SCIENCE

(1) Physics
(2) Chemistry

(C) ENGINEERING.

Materials of Construction

(D) GEODESY.

Surveying and Practical Astronomy

The subjects for the Examination for the Licence in Mechanical Engineering should be the following:—

(A) MATHEMATICS.

Differential and Integral Calculus.

(B) NATURAL SCIENCE.

Metallurgy.

(C) ENGINEERING.

Applied Mechanics and Stability of Structures.
Hydraulic Engineering and Design.
Mechanism and Machine Design.
Roads and Railways
Workshop appliances.
The Steam-Engine.

(D) DRAWING.

Machine Drawing.

Candidates for the Licence in Mechanical Engineering should also be allowed to take up one or more of the following optional subjects on the same conditions as candidates for the Licence in Civil Engineering.

OPTIONAL SUBJECTS.

(A) MATHEMATICS.

Pure Mathematics
Mixed Mathematics.

(B) NATURAL SCIENCE

Physics.
Chemistry

(C) ENGINEERING.

Materials of Construction.

(D) GEODESY.

Surveying and Practical Astronomy.

RESOLVED ALSO—

That the above resolution be printed and circulated to all the members of the Faculty of Engineering together with the letter of the Director of Public Instruction, Bengal, and its enclosures.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
H. H. LOCKE,
Chairman.

MINUTES

OF

THE FACULTY OF MEDICINE

FOR THE YEAR 1881-82.

No. 3.

THE 18TH AUGUST.

Present:

DR. A. J. PAYNE, *in the Chair.*

DR. CHANDRAKUMAR DE.
RAI KANAILAL DE, BAHADUR.
DR. G. KING.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
DR. K. MCLEOD.
DR. D. D. CUNNINGHAM.
BABU SURYYAKUMAR SARBADHIKARI.
BABU LALMADHAB MUKERJEE.

52. The Faculty met to consider the opinions of the members of the Faculty on the report of the Committee appointed to propose such alterations in the Regulations for the Licence in Medicine and Surgery, and for the degree of Bachelor in Medicine as would give effect to the resolution proposed by Dr. R. Harvey and seconded by Dr. A. J. Payne at the meeting of the Faculty held on the 3rd of May. On the motion of Dr. K. McLeod seconded by Rai Kanailal De, Bahadur, Dr. A. J. Payne was called to the chair.

Read opinions from Doctors Chandrakumar De, J. M. Cunningham, G. King, S. C. Townsend, T. R. Lewis, A. S. Lethbridge.

Rai Kanailal De, Bahadur, then moved and Babu Lalmadhab Mookerjee seconded the following resolution:—

That the Faculty is of opinion that in place of the Licence in Medicine and Surgery and the degree of M. B., being, as they are, parallel and distinct Medical qualifications, one or other of which students may elect to go in for; possessing however a distinct though almost identical

Code of regulations and a very slightly different standard of proficiency, the University should grant one Licence to practise both Medicine and Surgery, a double qualification, the L. M. S., and that all Medical degrees granted by the University should be additional to this Licence; that the attainment of a certain standard of qualification should entitle a candidate to the L. M. S.; but that the attainment of a higher standard, to be defined by regulation, should entitle him, *in addition to the L. M. S.*, to the higher and purely honorary title of M. B., and a higher still to M. D. These latter would thus imply the possession of the double qualification of a Licence in Medicine and Surgery and constitute a token of better culture, wider education, and more extensive knowledge.

The resolution was carried.

Munshi Tamiz Khan, Khan Bahadur, then moved and Dr. King seconded the following resolution:—

That the Faculty is of opinion that the regulations for the Licence in Medicine and Surgery do not require any alteration, but a paragraph should be added to them defining the percentage of marks which it is necessary to obtain in each subject, and another embodying the resolution regarding marks in the practical examination passed at the meeting of this Faculty held on the 3rd of May, *viz.*, that in those subjects in which there is a practical as well as a written Examination, no student be allowed to pass, unless he shall obtain at least one half of the marks allotted to the practical work.

The resolution was carried.

Dr. McLeod then moved—

That the Faculty recommend to the Syndicate,

That for clause (*a*) of the 2nd paragraph of the regulations for the degree of Bachelor of Medicine the following clause be substituted, "of having passed the First Examination in Arts, Latin having been one of the languages in which he was examined, or of having obtained the degree of B. A.," and that the footnote now appended to the above mentioned clause be omitted.

Dr. King seconded the motion.

Babu Lalmadhab Mookerjee then proposed the following amendment:

That in the motion proposed by Dr. McLeod the words "Latin having been one of the languages in which he was examined" be omitted.

The amendment, not having been seconded, fell to the ground.

The motion was then put to the vote and carried.

Babu Lalmadhab Mookerjee then moved and Munshi Tamiz Khan, Khan Bahadur, seconded the following resolution:

That the Faculty recommend to the Syndicate that the following provision be inserted in the Regulations for the degree of Bachelor of Medicine.

"Every candidate is required to obtain 50 per cent. of the maximum on every subject in both the first M. B. and the second M. B. Examinations, and in those subjects in which there is a practical Examination, no candidate will be held to have passed, who has not obtained 50 per cent. of the marks assigned to this part of the Examination in that subject."

The resolution was carried.

Rai Kanailal De, Bahadur, then moved and Babu Suryyakumar Sarbadhikari seconded the following resolution:

That the Faculty recommend to the Syndicate that the following provision be inserted in the Regulations for the degree of Bachelor of Medicine.

"A candidate failing to obtain the requisite number of marks to entitle him to the degree of M. B., shall, if he has reached the standard laid down for the Licence in Medicine and Surgery, be entitled to that Licence.

The resolution was carried.

Dr. D. D. Cunningham then moved—

That the Faculty recommend to the Syndicate that for paragraph 15 of the Regulations for the degree of M. B. the following paragraph be substituted,

Any licentiate of three years' standing may be admitted to this degree on paying a fee of 50 rupees, and producing certificates to the following effect:

(*a*) Of having passed the First Examination in Arts, Latin having been one of the languages in which he was examined; or, of having obtained the degree of B. A.

(*b*) Of having attended at a School of Medicine recognized by the Syndicate—

I. A second course of 20 lectures on Botany.

II. A course of 40 lectures in Comparative Anatomy and Zoology.

(*c*) Of having passed an examination in Comparative Anatomy and Zoology and in General and Comparative Physiology.

(*d*) Of having attained 50 per cent. of the marks which were allotted to each of the subjects in the L. M. S. Examination, and 50 per cent. of the marks assigned to the practical portion of the examination in subjects in which a practical test is laid down.

And that the footnote now appended to clause (*a*) of the above paragraph be omitted.

Rai Kanailal De, Bahadur, seconded the motion.

Babu Lalmadhab Mookerjee proposed the following amendment:

That in the motion proposed by Dr. D. D. Cunningham the word "two" be substituted for the word "three."

Babu Suryyakumar Sarbadhikari seconded the amendment which was carried.

The amended motion was then put to the vote and carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
A. J. PAYNE,
Chairman.

MINUTES

OF

THE FACULTY OF LAW

FOR THE YEAR 1881-82.

No. 1.

THE 19TH AUGUST.

Present:

W. C. BONNERJEE, ESQ., *in the Chair.*

THE HON'BLE ROMESH CHUNDER MITTER.
THE HON'BLE AMIR ALI, M. A.
BABU TROYLOKYANATH MITRA, M. A., D. L.
BABU RASHBIHARI GHOSH, M. A., B. L.

53. The Faculty met to name four or more subjects, upon one of which, (to be selected by himself,) the Professor to be appointed for the year beginning the 1st of September, 1882 should deliver a course of lectures.

Read a letter from Professor Jolly referred to the Faculty of Law by the Syndicate.

RESOLVED—

That the following four subjects be named:—

(1.) The Law relating to the disposition of property among the Muhammedans.

(2.) The Law of Testamentary Devise as administered in British India.

(3.) The Law relating to negotiable instruments.

(4.) The Hindu Law of Inheritance, Partition, and Adoption, according to the Smṛitis.

54. The Faculty then proceeded, in accordance with the request of the Syndicate, to consider the desirability of revising the prescribed list of text-books in Law.

RESOLVED—

(1.) That it is expedient to revise the list of text-books prescribed for the B. L. Examination, and that the following gentlemen be requested to form a Committee for this purpose.

W. C. Bonnerjee, Esq., President of the Faculty.	Babu Trailokyanath Mitra, M. A., D. L.
The Hon'ble Amir Ali.	Babu Gurudas Banerjea, M. A., B. L.

(2.) That the above-named Committee be also requested to consider the advisability of revising the list of subjects appointed for the Examination for Honours in Law.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
W. C. BONNERJEE,
President.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 7.

The 20th August.

Present:

The Hon'ble the Vice-Chancellor *in the Chair.*

Dr. K. M. Banerjea.
Nawab Abdul Latif, Khan Bahadur.
Raja Harendrakrishna, Bahadur.
Rai Jagadananda Mukerjee, Bahadur.
Babu Prasannakumar Sarbadhikari
Charles H. Tawney, Esq.
Rai Kanailal De, Bahadur, F. C. S. F. S. Sc.
A. W. Croft, Esq.
Munshi Tamiz Khan, Khan Bahadur.
Dr. K. McLeod.
Babu Omeshchunder Dutt.
A. W. Garrett, Esq.
John Eliot, Esq.
Pandit Maheschandra Nyayaratna, C. I. E.
Rev. Father E. Lafont, S. J. C. I. E.
Rev. J. E. Payne.
W. C. Bonnerjee, Esq.
Rev. Jas. Robertson.
Rev. A. F. Rudolf Hoernle, Ph. D.
Rev. W. Hastie, B. D.
Babu Suryyakumar Sarbadhikari.
A. M. Nash, Esq.
Rev. H. Finter.
Babu Krishnabihari Sen.
Rev. K. S. Macdonald.
Dr. J. M. Coates.
The Very Rev. Father D. Van Impe, S. J.
Babu Hemchandra Banerjee.
W. T. Webb, Esq.
J. Wilson, Esq.
Babu Lalmadhab Mukerjee.

54. Mr. Croft moved—

That there be alternative courses for the B. A. degree, (A) in Literature, (B) in Science.

The Rev. Father Lafont seconded the motion.

Dr. McLeod proposed the following amendment,

That in Mr. Croft's motion all the words after the word "that" be omitted, and the following words be substituted for them,

"a degree of B. Sc. be instituted parallel to the degree of B. A."

Babu Lalmadhab Mukerjee seconded the amendment, which was put to the vote and carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved,

That the number of subjects for the degree of Bachelor of Arts, in the Pass Course, be three.

The Rev. Father Lafont seconded the motion.

Dr. K. McLeod proposed the following amendment:

That in the motion proposed by Mr. Croft the word "four" be substituted for the word "three."

The Rev. W. Hastie seconded the amendment, which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That the number of subjects for the degree of Bachelor of Science, in the Pass Course, be three.

Mr. J. Eliot seconded the motion.

Dr. K. McLeod proposed the following amendment:

That in the motion proposed by Mr. Croft the word "four" be substituted for the word "three."

The Rev. W. Hastie seconded the amendment, which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved,

That English be a compulsory subject for the degree of Bachelor of Arts in the Pass Course.

Mr. J. Eliot seconded the motion.

The Rev. K. M. Banerjea, D. L. proposed the following amendment:

That in the motion proposed by Mr. Croft the words "and History" be inserted after the word "English."

The amendment, not having been seconded, fell to the ground.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That a classical language be a compulsory subject for the degree of Bachelor of Arts, in the Pass Course.

The Rev. Father Lafont seconded the motion.

The Rev. W. Hastie proposed the following amendment:

That in the motion proposed by Mr. Croft the word "Philosophy" be substituted for the words "a Classical Language."

Mr. J. Wilson seconded the amendment, which was put to the vote and carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That a classical language be an optional subject for the B. A. degree in the Pass Course.

The Rev. W. Hastie seconded the motion which was carried.

Mr. Croft then moved—

That History be an optional subject for the degree of Bachelor of Arts in the Pass Course.

Rai Kanailal De, Bahadur, seconded the motion.

The Rev. W. Hastie proposed the following amendment:

That in the motion proposed by Mr. Croft the words "with Political Economy" be inserted after the word "History"

Mr. C. H. Tawney seconded the amendment, which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That Mathematics be an optional subject in the Pass Course for the B. A. degree.

The Rev. K. S. Macdonald seconded the motion, which was carried.

Mr. Croft then moved—

That there be no other subjects in the Pass Course for the B. A. degree.

Dr. K. McLeod seconded the motion which was carried.

Mr. Croft then moved—

That the meeting be adjourned to Saturday the 27th instant.

Raja Harendrakrishna Bahadur seconded the motion which was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 8.

THE 27TH AUGUST.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

NAWAB ABDUL LATIF, KHAN BAHADUR
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
DR. K MCLEOD.
BABU OMESHCHUNDER DUTT.
A W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
REV. FATHER LAFONT, S. J., C. I. E.
REV. JAS. ROBERTSON.
W. GRIFFITHS, ESQ.
BABU GURUDAS BANERJEE, D. L.
REV. W. HASTIE, B. D
BABU SURYYAKUMAR SARBADHIKARI.
A. M NASH, ESQ.
REV. H. FINTER
REV. K. S. MACDONALD.
W. T. WEBB, ESQ.
J. WILSON, ESQ.
BABU RADHIKAPRASAD MUKERJEE.
BABU LALMADHAB MUKERJEE.

Mr. Croft moved—

That English, as in the B. A. course, be a compulsory subject in the Pass course for the degree of Bachelor of Science.

The Rev. Father Lafont seconded the motion, which was carried.

Mr. Croft then moved—

That Mathematics be a compulsory subject in the Pass course for the degree of Bachelor of Science.

The Rev. Father Lafont seconded the motion; Dr. K. McLeod proposed the following amendment—

That in the motion proposed by Mr. Croft the word "Chemistry" be substituted for the word "Mathematics."

Rai Kanailal De, Bahadur, seconded the amendment, which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That Physics and the elements of Chemistry be an optional subject in the Pass course for the degree of Bachelor of Science.

The Rev. Father Lafont seconded the motion which was carried.

Mr. Croft then moved—

That Chemistry and the elements of Physics be an optional subject in the Pass course for the degree of Bachelor of Science.

The Rev. Father Lafont seconded the motion, Dr. K. McLeod proposed the following amendment:

That the words "and the elements of Physics" be omitted.

The amendment, not having been seconded, fell to the ground.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That Geology, together with either Botany or Zoology, be an optional subject in the Pass course for the degree of Bachelor of Science.

The Rev. Father Lafont seconded the motion.

Dr. K. McLeod proposed the following amendment:

That in Mr. Croft's motion the words "the elements of Comparative Anatomy and Physiology" be substituted for the word "Geology."

Munshi Tamiz Khan, Khan Bahadur seconded the amendment, which was put to the vote and lost.

The Rev. W. Hastie then proposed the following amendment:

That in Mr. Croft's motion the word "Botany" be substituted for the word "Geology," and the word "Geology" for the word "Botany," so that the motion will run as follows, Botany together with either "Geology or Zoology," &c.

Mr. W. Trego Webb seconded the amendment which was carried.

Mr. J. Eliot then proposed the following amendment:

That in the motion as amended, for the words "Botany together with either Geology or" be substituted the words "Physiology together with either Botany or."

The Rev. J. Robertson seconded the amendment which was carried.

The amended motion, "That Physiology together with either Botany or Zoology be an optional subject in the Pass course for the degree of Bachelor of Science" was then put to the vote and carried.

Mr. Croft then moved—

That Geology together with either Mineralogy or Physical Geography be an optional subject in the Pass course for the degree of Bachelor of Science.

Babu Lalmadhab Mukerjee seconded the motion, which was carried.

Mr. Croft then moved—

That there be no more subjects in the Pass course for the degree of Bachelor of Science.

Mr. A. M. Nash seconded the motion, which was carried.

Mr. Croft then moved—

That under the head of English for the B. A. Pass Examination no change be made in the present definition of the subject.

The Rev. W. Hastie proposed the following amendment:

That in the motion proposed by Mr. Croft all the words after the word "That" be omitted and the following words be substituted for them "the question of limits be deferred until it is determined whether there be different Pass and Honour Courses."

The Rev. J. Robertson seconded the amendment, which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That the subject of Philosophy in the B. A. Pass Examination be defined as Mental and Moral Science, *i. e.*, Psychology including the Psychology of Ethics, and the History of Moral Systems.

The Rev. W. Hastie proposed the following amendment:

That in the motion proposed by Mr. Croft the words "Modern Systems" be substituted for the words "Moral Systems."

Mr. J. Wilson seconded the amendment which was lost.

The Rev. J. Robertson then proposed the following amendment:

That in the motion proposed by Mr. Croft the word "Logic" be substituted for the words "the History of Moral Systems."

The Rev. Father Lafont seconded the amendment which was lost.

The Rev. W. Hastie then proposed the following amendment:

That the words "Natural Theology" be substituted for the words "the History of Moral Systems."

The Rev. H. Finter seconded the amendment which was lost.

The Rev. W. Hastie then proposed that in the motion proposed by Mr. Croft the word "either" be inserted before the words "the History of Moral Systems," and the words "or Natural Theology" be added to the motion.

The Rev. K. S. Macdonald seconded the motion which was lost.

The Rev. J. Robertson then proposed the following amendment:

That the word "Metaphysics" be substituted for the words "The History of Moral Systems."

The Rev. W. Hastie seconded the amendment which was lost.

The Rev. K. S. Macdonald then proposed the following amendment:

That the word "Metaphysics" be inserted after the word "Ethics."

The Rev. W. Hastie seconded the amendment which was lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That in the course for the B. A. Pass Examination no change be made in the present definition of a classical language.

Nawab Abdul Latif, Khan Bahadur, seconded the motion which was carried.

Mr. Croft then moved—

That in the course for the B. A. Pass Examination the subject of History include "The History of England and the Elements of Political Economy, together with the History of one of the following countries, India, Greece, Rome."

The Rev. Father Lafont seconded the motion.

The Rev. K. S. Macdonald proposed that for the words "one of the following countries, India, Greece, Rome" be substituted the words "India or the History of Greece and Rome."

Mr. Tawney seconded the amendment which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft moved—

That in the course for the B. A. Pass Examination the subject of Mathematics include Statics, Hydrostatics, Dynamics, and Hydrodynamics.

Mr. J. Eliot seconded the motion.

Mr. Nash proposed the following amendment:

That the word "Hydrodynamics" be omitted.

Babu Lalmadhab Mukerjee seconded the amendment, which was carried.

Mr. A. M. Nash then proposed the following amendment:

That the words "Analytical Geometry as in the present optional B. A. course" be added to the motion.

Mr. W. Trego Webb seconded the amendment which was lost.

The motion, as amended, was then put to the vote and carried.

Mr. Croft then moved—

That the meeting be adjourned to Saturday the 3rd of September.

Rai Kanailal De, Bahadur, seconded the motion, which was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 9.

THE 3RD SEPTEMBER.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

NAWAB ABDUL LATIF, KHAN BAHADUR.
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ.
DR. K. MCLEOD.
A. W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
REV. FATHER E. LAFONT, S. J. C. I. E.
BABU KALICHARAN BANERJEE.
REV. JAS. ROBERTSON.
DR. A. F. RUDOLF HOERNLE.
REV. W. HASTIE, B. D.
BABU SURYYAKUMAR SARBADHIKARI.
DR. R. HARVEY.
A. M. NASH, ESQ.
BABU KRISHNABIHARI SEN.
REV. K S. MACDONALD.
DR. J. M. COATES.
J. WILSON, ESQ.

Mr. Croft moved—

That the subjects of English and Mathematics for the Bachelor of Science course be the same as for the Bachelor of Arts course.

Babu Prasannakumar Sarbadhikari seconded the motion, which was carried.

Mr. Croft then moved—

That in the subject of "Physics and the Elements of Chemistry" Physics do include—

(*a*) *General Ideas*—

1.—Wave motion:—

Measurement of simple or harmonic wave motions.
Combination of wave motions.
Resolution of complex wave motions into simple or harmonic wave motions.

2.—Potential:—

Definition of potential.
Calculation of potential in simple cases.
Determination of force from the potential.
Fundamental propositions respecting lines of force, equipotential surfaces, and tubes of force.

3.—Elasticity:

Definition of elasticity.
Measurement of elasticity in the cases of solids, liquids, and gases.
Distinction between, and determination of, elasticity of constant temperature and of constant entropy for gases.

(b) Heat—

In addition to a more thorough acquaintance with the subject than that required for the First Arts Examination and a greater power of working problems on heat, an elementary knowledge of the principles of thermo-dynamics will be required.

(c) Light—

In this subject, more difficult questions in the determination of foci, focal lengths, &c., will be required than for the First Arts Examination. Also the following:—

Spherical aberration.
Dispersion.
The formation of rainbows.

(d) Frictional Electricity—

This subject must be now taken up in connection with potential.

(e) Sound—

The laws of the production and propagation of sound determined experimentally.
Intensity, pitch, and quality of sounds.
The velocity of sound in air and other media: Doppler's principle.
Reflection and refraction of sound.
Measurement of sound vibrations and wave lengths of air.
Resonance.
Interference of sound waves. Beats.
Harmonic tones; their generation and function in sound.
Longitudinal vibration of rods and of columns of air.
Transverse vibration of strings.
Formation of Chladni's figures.
Vibrations of tuning-forks and bells.
Nature of musical sounds.
Vocal organs of man.

(f) Dynamical Electricity—

Voltaic batteries as sources of electric currents.
Action of currents on magnetic needles. Galvanometers.
Thermo-electric currents.
Definition and measurement of electric force, conductivity, resistance, and current.
Ohm's law, and its simpler applications.
Laws of action of currents on currents, and their simpler applications.
Solenoids. Ampère's theory of magnetism.

Electro-magnets.
Mechanical, chemical, and heating effects of currents. Electrolysis.
Induced currents, their modes of generation and laws of action.
Ruhmkorff's coil.
Electro-magnetic currents.
Electro-magnetic machines; the more important details of the working of telegraphs.
Theories of electricity.

(g) Magnetism—

Properties of permanent and artificial magnets.
Magnetic induction.
Phenomena of terrestrial magnetism.
Determination of declination, dip, and intensity of the magnetic force of the earth.
The compass needle.
Methods of magnetisation.
Determination of magnetic laws of action by the torsion balance.
Magnetic Potential.

And Chemistry do include—

(*a*) The following general considerations:—

Definition of chemistry; differences between chemical action and the action of the physical forces; simple and compound matter; different modes of chemical action; combining weights, volume weights; principles of chemical nomenclature, symbolic notation, graphic notation; chemical equations; atoms and molecules; general knowledge of atomicity of elements; simple and compound radicals; classification of elements.

(b) A fairly complete knowledge of the modes of occurrence, methods of preparation, properties, uses, and general characters of the following non-metallic elements, of their allotropic modifications, and of their principal and best known compounds:—

Hydrogen, fluorine, chlorine, bromine, iodine.
Oxygen (and ozone).
Boron.
Carbon, silicon.
Nitrogen, phosphorus, arsenic.
Sulphur.

(*c*) A general knowledge of—

The distinctions between non-metals and metals.
Acids, bases, and salts.
The constitution of salts.
The principles of crystallography.

(d) A knowledge of the methods of preparation, properties, and uses of the following metals and their principal salts:—

Sodium, potassium, ammonium, silver.
Calcium (glass manufacture, &c.), magnesium, zinc, copper, mercury.
Gold.
Lead, tin, platinum, aluminium (porcelain, pottery, &c.).
Antimony, bismuth.
Chromium, manganese, iron.

Rai Kanailal De, Bahadur, seconded the motion—

Mr. J. Eliot proposed the following amendment:

That under the head of Physics, after the words "Magnetic Potential," the following words be inserted :—

"*(h) Polarization of Light*—

Undulatory theory of light.
Reflection and refraction of light.
Prismatic analysis of light.
Achromatism.
Explanation of lines in the solar and other spectra.
Interference of light.
Diffraction of light.
Measurements of wave lengths of light.
Colours of thin plates.
Double refraction.
Polarization of light by reflection, refraction, and double refraction.
Interference of polarized light as shown by double refracting crystals. Polariscopes.
Elliptic and circular polarization.
Rotary polarization."

Mr. A. W. Garrett, seconded the amendment, which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That in the subject "Chemistry and the elements of Physics" Chemistry do include, under the head of Inorganic Chemistry, in addition to a fuller knowledge of the subjects specified under Chemistry in the previous resolution :—

(*a*) General considerations :—

Laws of chemical combination, equivalents, atomic weights, physical and chemical relations of atomic weights, specific or atomic volume, a more complete knowledge of the subject of atomicity or quantivalence, artiads, perissads, &c. ; variations of atomicity ; absolute, latent, and active atomicity ; relations between atomic weight and quantivalence, chemical affinity, influence of pressure on chemical action, relations of heat to chemical affinity, &c. ; physical properties of metals, chemical relations of metals, alloys, general characters and general methods of preparation of compounds of metals with non-metals, theory of normal, acid and basic salts, isomorphism, the principles of qualitative analysis.

(*b*) Study of the following elements :—

Selenium, tellurium, lithium, cæsium, rubidium, barium, strontium, the earth metals, cadmium, indium, gallium, titanium, vanadium, uranium, tungsten, molybdinum, nickel, cobalt, and the platinum metals.

(*c*) A knowledge of the methods used in the preparation of the more important acids, salts, &c., employed in the arts and manufactures.

(*d*) A knowledge of metallurgical operations, such as are employed in the preparations of iron, zinc, copper, lead, tin, mercury, silver, and aluminium.

Under the head of Organic Chemistry,

The following general considerations:—

(a) Definition of organic bodies, synthesis from inorganic materials, decompositions and transformations of organic compounds, analysis of organic bodies.

(b) Determination of the specific gravity of gases and vapours.

(c) Determination of empirical, rational, and constitutional formulæ; theory of types, classification of organic compounds, organic series, constitutional formulæ of organic compounds.

(d) Isomerism, metamerism, and polymerism; physical properties of organic compounds.

(1) A knowledge of some few typical compounds in each of the different classes of organic compounds; (2) of the methods of preparation, properties, and general relations of the more important compounds derived from the principal series of radicals, such as $C_n H_{2n+1}$, $C_n H_{2n}$, $C_n H_{2n-1}$, $C_n H_{2n-2}$, $C_n H_{2n-7}$, &c.; (3) some acquaintance with the cyanogen compounds, with sugar starch, glycogen, glucosides, alkaloids, &c.

And that the subject "Elements of Physics" do include the following considered with special reference to Chemistry:

(a) Heat—

Heat of combustion, absolute thermal effects and pyrometric thermal effects of chemical combination, theory of flame, theories of the source of light in luminous flames.

(b) Light—

Reflection and refraction, dispersion, spectrum analysis, chemistry of light, photography, fluorescence, double refraction and polarization, saccharimeters.

(c) Magnetism—

Magnetism, magnetic polarity, natural and artificial magnets, diamagnetism.

(d) Electricity—

Two kinds of electricity, insulators and conductors; sources of electricity, electricity developed by chemical action, voltaic electricity various batteries, electrolysis, laws of electrolysis, electro-plating, electro-gilding.

The Rev. Father Lafont, seconded the motion.

Mr. J. Eliot proposed the following amendment:

That in the motion proposed by Mr. Croft under the head of Organic Chemistry, clauses (2) and (3) be omitted.

Mr. Garrett seconded the amendment.

The amendment was carried—

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That the definition of Physiology be deferred until next meeting, and that Zoology include the following :—

Embryonic development and comparative anatomy of the principal orders of animals, ordinal classification of the animal kingdom, and generic classification of one selected order of Vertebrata and one of Invertebrata, to be notified beforehand. The geographical distribution and habitats of animals. The species of the mammals of India, omitting the micro-mammalia, *viz.*, Insectivora, Rodentia, and Chiroptera; and the Indian genera of one order of Reptilia and one of Aves, to be previously notified.

And that Botany include the following :—

(a) The morphology and histology of flowering plants; the general principles of their classification on the systems of Linnæus and de Candolle, with a detailed acquaintance with the characters of the following natural orders:

Anonaceæ.	Apocyneæ.
Menispermaceæ.	Asclepiadaceæ.
Nymphæaceæ.	Convolvulaceæ.
Papaveraceæ.	Solanaceæ.
Cruciferæ.	Boragineæ.
Malvaceæ.	Acanthaceæ.
Sterculiaceæ.	Verbenaceæ.
Tiliaceæ.	Labiatæ.
Aurantiaceæ.	Amarantaceæ.
Ampelideæ.	Urticaceæ.
Anacardiaceæ.	Euphorbiaceæ.
Leguminosæ.	Palmeæ.
Myrtaceæ.	Aroideæ.
Combretaceæ.	Commelynaceæ.
Cucurbitaceæ.	Orchidaceæ.
Umbelliferæ.	Scitamineæ.
Rubiaceæ.	Cyperaceæ.
Compositæ.	Gramineæ.

(b) A general acquaintance with the morphology, histology, and classification of cryptogams.

(c) Vegetable physiology.

(d) The chemistry of vegetable life.

Mr. Nash seconded the motion.

Dr. McLeod proposed the following amendment:

That the following words be added to the motion proposed by Mr. Croft :—

(e) Geographical Distribution of Plants.

(f) Palæobotany.

The Rev. W. Hastie, seconded the amendment, which was lost.

Mr. J. Eliot then proposed the following amendment:—

That the following words be omitted from the motion, proposed by Mr. Croft,

"*(d.)* The Chemistry of Vegetable Life."

The Rev. Father Lafont, seconded the amendment, which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That the subject of Geology do include:

The classification, structure, and formation of rocks. The evidence of past changes afforded by their present condition, and a practical acquaintance with their mineral characteristics, to be tested by specimens. The generic determination of the most charactoristic fossil forms, and the indication of age and habitat which they afford. A practical knowledge of fossil forms, to be tested by specimens. A general knowledge of the geology of Great Britain and Western Europe, and a more detailed knowledge of the geology of India. An acquaintance with geological maps, to be tested by the construction of a geological section from a given map.

That Mineralogy be defined as follows:—

(a) General characteristics of minerals.

(b) Crystallography of the structure of minerals, fundamental forms of crystals, cleavage, secondary forms, compound crystals, dimorphism, irregularities of crystals, measuring angles of crystals, massive minerals, columnar structure, lamellar and granular structure, pseudomorphous crystals.

(c) Physical properties of minerals; lustre, colour, diaphaneity, refraction and polarization, phosphorescence, electricity and magnetism, specific gravity, hardness, state of aggregation, fracture, taste, odour.

(d) Chemical properties of minerals; action of acids, &c., on minerals; blow-pipe re-actions of minerals.

(e) Classification of minerals.

(f) Description and recognition of the more important minerals, and rocks or mineral aggregates.

(g) Chemical composition and formulæ of minerals.

And that Physical Geography be defined as follows:—

The form and density of the earth, and modes of ascertaining them. The distribution and characteristic geographical phenomena of land and water. Climate and its determining causes. The inorganic physical geography of India. Meteorology.

Nawab Abdul Latif, Khan Bahadur, seconded the motion, which was carried.

Dr. Harvey proposed the following amendment—

That Physical Geography do include the Geographical Distribution of Plants.

Dr. Coates seconded the amendment, which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That a subject be fixed for Honours corresponding to each subject of the Pass course, and that every candidate be at liberty to substitute the Honour for the Pass course in any branch.

The Rev. Father Lafont seconded the motion.

The Rev. W. Hastie proposed the following amendment:

That in the motion proposed by Mr. Croft all the words after the word "That" be omitted, and the following words be substituted for them.

"Honours be awarded only for high proficiency in all the three subjects taken together, as shewn by the sum total of marks obtained."

Mr. J. Wilson seconded the amendment which was put to the vote and lost.

The original motion was then put to the vote and carried.

Dr. K. McLeod moved that the meeting be adjourned to Saturday the 10th of September.

The Rev. Father Lafont seconded the motion which was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 10.

THE 10TH SEPTEMBER.

Present:

REV. FATHER E. LAFONT, S. J., C. I. E., *in the Chair.*

BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. Sc.
A. W. CROFT, ESQ.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
A. W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA, C. I. E.
BABU KALICHARAN BANERJEE.
REV. JAS. ROBERTSON.
REV. W. HASTIE, B. D.
BABU SURYYAKUMAR SARBADHIKARI.
DR. R. HARVEY.
A. M. NASH, ESQ.
REV. H. FINTER.
BABU KRISHNABIHARI SEN.
REV. K. S. MACDONALD,
THE VERY REV. FATHER D. VAN IMPE, S. J.
W. T. WEBB, ESQ.
J. WILSON, ESQ.
BABU RADHIKAPRASAD MUKERJEE.

On the motion of Mr. Croft, seconded by Pandit Maheśachandra Nyáyaratna, C. I. E., the Rev. Father Lafont S. J., C. I. E., was called to the chair.

Mr. Croft then moved—

That the subject of Physiology for the B. Sc. Pass course do include—

(1) A course of practical instruction in Elementary Biology.

(2) General Physiology.

(3) Special Physiology of the *Vertebrates.*

(4) Special Physiology of the *Invertebrates.*

Mr. J. Eliot seconded the motion which was carried.

Mr. Croft then moved—

That the B. A. Honour Course in English do include, in addition to the subjects prescribed for the Pass Examination

a further course in English, and the History of the English Language and Literature.

The Rev. K. S. Macdonald seconded the motion which was carried.

Mr. Croft then moved—

That the subject of philosophy for the B. A. Honour Examination do include Mental and Moral Science defined as in the Pass Course, together with the History of Modern European Philosophy and either

(*a*) Pure Logic,

or

(*b*) Natural Theology.

The very Rev. Father Van Impe seconded the motion.

The Rev. J. Robertson proposed the following amendment:

That in the motion proposed by Mr. Croft the word "Pure" before "Logic" be omitted.

Mr. J. Eliot seconded the amendment which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That the subject of History for the B. A. Honour Examination do include the History of England, India, Greece, and Rome, together with Political Economy treated more fully than in the Pass Examination, and

Arnold's Lectures on Modern History

or

Mill on Representative Government

or

The History of the Jews.

The Rev. K. S. Macdonald seconded the motion.

Mr. Webb proposed the following amendment:

That in the motion proposed by Mr. Croft the words "*or* The History of the Jews" be omitted.

Mr. Nash seconded the amendment which was put to the vote and lost.

Mr. J. Eliot then proposed the following amendment:

That the words "Arnold's Lectures on Modern History *or* Mill on Representative Government *or*" be omitted.

This amendment, not having been seconded, fell to the ground.

The Rev. H. Finter then proposed the following amendment:

That the words "Arnold's Lectures on Modern History *or*" be omitted.

Dr. Harvey seconded this amendment which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That the B. A. Honour Course in the Classical Language do include, in addition to the subjects prescribed for the Pass Examination, Comparative Grammar, together with a second course in the Classical Language, *or* a second Classical Language.

Babu Prasannakumar Sarbadhikari seconded the motion.

Mr. Webb proposed as an amendment that the words "*or* a second Classical Language" be omitted.

Pandit Maheśachandra Nyáyaratna, C. I. E. seconded the amendment which was put to the vote and lost.

The original motion was then put to the vote and carried.

Mr. Croft then moved—

That the B. A. Honour course in Mathematics be identical with that which may be fixed for the degree of Bachelor of Science with Honours.

Rai Kanailal De, Bahadur, seconded the motion which was carried.

Mr. Croft then moved—

That the standard in English for the degree of Bachelor of Science with Honours be the same as that fixed for the B. A. Honour Degree.

Babu Suryyakumar Sarbadhikari seconded the motion.

Mr. Tawney proposed the following amendment:

That in the motion proposed by Mr. Croft all the words after the word "that" be omitted, and the following words

substituted for them, "the Course in English for the degree of Bachelor of Science with Honours do consist, in addition to the subjects prescribed for the Pass Course, solely of prose works on scientific subjects."

The Rev. W. Hastie seconded the amendment, which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That the course in Mathematics for the B. Sc. Honour Degree be the subjects of the Pass Course, together with Analytical Plane Geometry, as defined on page 7 of the Committee's Report, and Differential and Integral Calculus, as defined on pages 7 and 8 of the Committee's Report.

Mr. J. Eliot seconded the motion which was carried.

Mr. Croft then moved—

That the B. Sc. Honour Course, corresponding to either Physics and the elements of Chemistry or Chemistry and the Elements of Physics, do include the full subjects of Physics and Chemistry defined as for the Pass Course, together with the Doctrine of Scientific Method.

Rai Kanailal De, Bahadur, seconded the motion which was carried.

Mr. Croft then moved—

That the B. Sc. Honour subject, corresponding to Physiology together with either Zoology or Botany, be Physiology and Zoology and Botany together with the Doctrine of Scientific Method.

Mr. J. Eliot seconded the motion which was carried.

Mr. Croft then moved—

That the B. Sc. Honour subject, corresponding to Geology and Mineralogy or Physical Geography, be Geology and Mineralogy and Physical Geography, together with the Doctrine of Scientific Method.

Babu Suryyakumar Sarbadhikari seconded the motion which was carried.

Mr. Croft then moved—

That the meeting be adjourned to Saturday, the 17th of September.

The Rev. K. S. Macdonald seconded the motion which was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
E. LAFONT, S. J.,
Chairman.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 11.

THE 17TH SEPTEMBER.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

NAWAB ABDUL LATIF, KHAN BAHADUR.
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA.
REV. FATHER LAFONT, S. J., C. I. E.
A. M. BOSE, ESQ.
BABU KALICHARAN BANERJEE.
REV. JAS. ROBERTSON.
DR. A. F. RUDOLF HOERNLE, PH. D.
REV. W. HASTIE, B. D.
BABU SURYYAKUMAR SARBADHIKARI.
H. LEVINGE, ESQ.
REV. H. FINTER.
BABU KRISHNABIHARI SEN.
REV. K. S. MACDONALD.
W. T. WEBB, ESQ.
J. WILSON, ESQ.
BABU RADHIKAPRASAD MUKERJEE.
BABU LALMADHAB MUKERJEE.

Mr. Croft moved—

That for the M. A. degree in English a course be set corresponding in extent and character to that recommended by the Committee of the Faculty of Arts.

Mr. W. T. Webb seconded the motion, which was carried.

Mr. Croft then moved—

That for the M. A. degree in the Classical Language a course be set corresponding in extent and character to that recommended by the Committee of the Faculty of Arts, with the inclusion of Comparative Grammar as prescribed for the M. A. Course in English.

Mr. W. T. Webb seconded the motion.

Pandit Maheschandra Nyayaratna proposed the following amendment:

That to Mr. Croft's motion the following words be added "and that it be a suggestion to the Syndicate that in the

list of books recommended by the Committee of the Faculty of Arts the words "Upanishad with S'ankara's Commentary" be substituted for the words "Mundaka and Chhándogya Upanishads," that the words Sánkhyapravachanabháshya by Vijnánabhikshu" be omitted altogether, and that the words "S'is'upálabadha by Mágha, Cantos I to VI inclusive" be added after the word "Uttaracharita."

Babu Prasannakumar Sarbadhikari seconded the amendment, which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That for the M. A. degree in History a course be set corresponding in extent and character to that subject as defined in para. 40 of the Committee's report.

The Rev. J. Robertson seconded the motion which was carried.

Mr. Croft then moved—

That the course to be set for the M. A. degree in Philosophy correspond in extent and character to that subject as defined in para. 41 of the Committee's report.

Babu Lalmadhab Mukerjee seconded the motion.

The Rev. W. Hastie proposed the following amendment:

That in Mr. Croft's motion all the words after the word "Philosophy" be omitted, and the following words be substituted for them "include Logic, Deductive and Inductive, Psychology, Ethics and Natural Theology, and that these subjects be studied historically in the works of the principal authorities."

Mr. A. M. Bose seconded the amendment which was carried.

The Rev. J. Robertson then proposed that in the motion as amended the word "either" be inserted before, and the words "or the evidences of Christianity" after the words "Natural Theology."

Babu Kalicharan Banerjee seconded this amendment which was carried.

The Rev. K. S. Macdonald proposed the following amendment:

That in the motion as now amended for the words "either Natural Theology" be substituted the words "Natural Theology and either the Philosophy of History."

Babu Krishnabihari Sen seconded this amendment which was lost.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That the course for the Degree of Master of Science in Mathematics include the subject as defined in para. 42 of the Committee's report.

Rai Kanailal De Bahadur seconded the motion.

The Rev. W. Hastie proposed the following amendment:

That in the motion proposed by Mr. Croft all the words after the words "that the" be omitted and that the following words be substituted for them "consideration of Mr. Croft's motion be deferred until it be decided whether there is to be a degree of Master of Science, and that such a degree be instituted."

Babu Lalmadhab Mukerjee seconded the amendment which was put to the vote and lost.

Mr. A. M. Bose then proposed the following amendment:

That in Mr. Croft's motion the words "Master of Arts" be substituted for the words "Master of Science."

The Rev. K. S. Macdonald seconded this amendment which was carried.

Mr. A. M. Bose then proposed the following amendment:

That the words "together with Algebra and Trigonometry as in the present course for Honours in Mathematics" be added to the motion proposed by Mr. Croft.

Nawab Abdul Latif Khan Bahadur seconded the amendment which was carried.

The amended motion was then put to the vote and carried.

Mr. Croft then moved—

That candidates for the degree of Master of Arts in the Natural and Physical Sciences be allowed to select alternatively two out of the following group of subjects :—

A. Chemistry.

B. Electricity and Magnetism.

C. Heat and the Elements of Molecular Physics.

or two out of the following group :—

D. Botany.

E. Physiology and Zoology.

F. Geology and Mineralogy.

and that these subjects be defined as in paras. 44, 46, 47, 48, 49, and 50 of the Committee's Report with the condition indicated in para:. 45.

The Rev. Father Lafont seconded the motion which was carried.

Mr. Croft then moved—

That a degree of Doctor of Science be instituted in this University, for which any person who has taken the degree of Master of Arts may be allowed to present himself after the expiration of one year from the date of his taking the said degree.

The Rev. Father Lafont seconded the motion.

Mr. A. M. Bose proposed the following amendment :

That in Mr. Croft's motion all the words after the word "that" be omitted and that the following words be substituted for them :

"the question of instituting degrees higher than that of Master of Arts be referred for consideration to the Faculty of Arts.

The Rev. W. Hastie seconded the amendment which was carried.

The amended motion was then put to the vote and carried.

The Vice-Chancellor then proposed—

That this meeting be adjourned to the 19th of November, and that the Syndicate be requested in the meantime to

embody the Resolutions of the Senate in the Form of Regulations.

Mr. Croft seconded the motion which was carried.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)

ARTHUR WILSON,
Vice-Chancellor.

BENGAL SECRETARIAT LIBRARY

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 4.

THE 15TH OCTOBER.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE HON'BLE MAHARAJA JOTENDRA-MOHAN TAGORE, BAHADUR, C. S. I.
THE HON'BLE H. J. REYNOLDS.
J. ELIOT, ESQ.
DR. K. MCLEOD.

56. Read a letter from the Hon'ble Maharaja Jotendra-mohan Tagore, C. S. I., President of the Faculty of Arts nominating Mr. J. Eliot to officiate as a representative of that Faculty in the Syndicate during Mr. Croft's absence from Calcutta.

57. Read the proceedings of the Faculty of Engineering at their meeting on the 17th of August 1881.

ORDERED—

To be recorded.

58. Read the proceedings of the Faculty of Medicine at their meeting on the 18th of August 1881.

ORDERED—

That the Registrar draft alterations in the Regulations for the L. M. S. and M. B. Examinations in accordance with the recommendations of the Faculty of Medicine, and submit them for the approval of the Syndicate at their next meeting.

59. Read the proceedings of the Faculty of Law at their meeting on the 19th of August 1881.

ORDERED—

That the following advertisement be inserted in the leading newspapers of Calcutta, Madras, Bombay and Allahabad.

"The Senate will proceed in the month of March 1882 to the election of a Tagore Professor for the term of one year to commence on the 1st of September 1882.

The salary of the Professorship is Rs. 10,000 per annum, and the Professor will be expected to deliver a course of not less than twelve lectures upon one of the following subjects:

(1). The Law relating to the Disposition of Property among the Muhammadans.
(2.) The Law of Testamentary Devise as administered in British India.
(3.) The Law relating to Negotiable Instruments.
(4.) The Hindu Law of Inheritance, Partition, and Adoption, according to the Smritis.

Candidates for the Professorship are requested to forward their applications to the Registrar on or before the 1st of January 1882, and at the same time to state on which of the abovementioned four subjects they are prepared to lecture."

ORDERED ALSO—

That the Registrar forward copies of this advertisement to the Sub-Treasurers of the Inns of Court, asking them to make the matter known among the members of their respective Inns in such a manner as they may deem advisable, and also to the Registrars of the Universities of Oxford, Cambridge, and London.

60. Read the Resolutions of the Senate with reference to the F. A., B. A., B. Sc. and M. A. Examinations.

RESOLVED—

That the Syndicate recommend to the Senate that for the present Regulations for the First Examination in Arts, for the degree of Bachelor of Arts, for Honours in Arts, and for the Examination for the degree of M. A., the following Regulations be substituted:

FIRST EXAMINATION IN ARTS.

1. The First Examination in Arts shall commence annually at such time as the Syndicate shall determine, (the date to be approximately notified in the Calendar for the year,) and shall be held in Calcutta and in such other places* as shall from time to time be appointed by the Syndicate.

2. Any undergraduate of the University may be admitted to this Examination, provided he has prosecuted a regular course of study in any affiliated institution for not less than two academical years after passing the Entrance Examination.†

3. Every candidate for admission shall send his application with a certificate in the form entered in Appendix A, either to the Registrar or to a local officer recognised by the Syndicate. Every such application must reach the office of the Registrar at least thirty days before the date fixed for the commencement of the Examination.

4. A fee of twenty rupees shall be payable by each candidate. No candidate shall be admitted, unless he shall have paid this fee to the Registrar or to the local officer recognised by the Syndicate. A candidate who fails to pass or to present himself for examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to any one or more subsequent First Examinations in Arts on payment of a like fee of twenty rupees on each occasion, provided he produces a certificate from the head of an affiliated institution showing that he has prosecuted a regular course of study for six months since the date of the last examination to which he was admitted.

5. The First Examination in Arts shall be conducted by means of printed papers, the same papers being used at every place at which the Examination is held.

6. At such time as the Syndicate shall determine, (the date to be approximately notified in the Calendar for the year,) the Syndicate shall publish a list of the candidates

* The following places have already been appointed :—
Hooghly, Berhampore, Kishnaghur, Dacca, Patna, Benares, Agra, Delhi, Bareilly, Ajmere, Lahore, Lucknow, Colombo, Simla, Darjeeling, Sehore, Allahabad, Mussoorie, Cuttack, Chittagong, Jubbulpore, Batticaloa, Indore, Midnapore, Rampore Baulia, Nowgong, Rangoon, Nagpur.

† The Syndicate have power to make exceptions to this rule in favour of Deputy Inspectors of Schools and Schoolmasters.

who have passed, arranged in three divisions, the first in order of merit, and the second and third in alphabetical order. Every candidate shall on passing receive a certificate in the form entered in Appendix A.

7. At the First Examination in Arts every candidate shall be examined in the following subjects, and the number of papers in each shall be as follows:

I.—English	Two papers
II.—A Second language.....	" "
III.—Mathematics	" "
IV.—Elementary Physics	" "
V.—History	One paper.
VI.—Logic	" "

I & II.—Languages.*

The Second language shall be one of the following languages:—

Greek.	Hebrew.
Latin	Arabic.
Sanskrit.	Persian.
	Pali.

Any other classical language may be added to this list by the Syndicate. Sentences in each language in which the candidate is examined shall be given for translation into the other language.

The papers in each language shall include questions on Grammar and Idiom.

III.—Mathematics.

(*a*) *Arithmetic*—

(*b*) *Algebra.*—Quadratic equations; theory of quadratic equations and expressions; imaginary expressions; arithmetical, geometrical, and harmonical progressions; permutations and combinations; binomial and exponential theorems.

(*c*) *Plane Geometry.*—Simple problems in the geometry of the straight line, triangle, and circle, treated according to modern methods. The more important properties of the parabola and ellipse.

(*d*) *Trigonometry.*—Methods of measuring angles.
Trigonometrical ratios, and the simple relations connecting them.
Relations between trigonometrical ratios of angles differing by multiples of right angles
Trigonometrical transformations.
Solution of triangles.
Properties of triangles.
Area of a circle.

(*e*) *Logarithms.*—The properties of logarithms.
Logarithmic series.
The use of logarithmic tables.
Proportional parts.

* The text-books will be fixed from time to time by the Syndicate. *See* Appendix B.

IV.—Elementary Physics.

(*a*) *General Ideas*—
Units of measurement, and definitions of mass, force, motion.
Laws of motion.
Work and energy,—measurement of each.
Chief forces of nature.
General properties of solids, liquids, and gases.
Conditions of equilibrium of a mass acted on by forces.
Motions of translation and rotation.
Pressure of fluids and gases: measurement of pressure.
Equilibrium of floating bodies.
Specific gravity and its determination.
Motion of pendulum, and of the torsion pendulum or balance.

(*b*) *Heat*—
Laws of expansion of solids, liquids, and gases under heat.
Determination of co-efficients of expansion.
Measurement of temperature.
Maximum density of water.
Changes of molecular state, and latent heat of molecular changes of state.
Influence of change of pressure on the boiling point and melting point.
Regelation.
Laws of pressure of gases.
Elastic force of vapour; dew point, and its determination.
Formation of dew and clouds.
Radiation, conduction and convection of heat.
Phenomena of combustion.
Steam engines.

(*c*) *Light*—
Laws of transmission of light and of its intensity.
Shadows.
Images produced by small apertures.
Photometry.
Reflection of light.
Refraction of light.
Images by reflection and refraction, and their position.
Critical angle.
Properties of prisms and lenses.
Telescope, microscope, spectroscope, the human eye.
Decomposition of light.

(*d*) *Frictional Electricity*—
Electrical attractions and repulsions.
Properties of conductors and non-conductors.
Electrical induction.
Electrical force and density.
Electrical distribution on conductors.
Power of points.
Ramsden's and Armstrong's electrical machines.
Condenser; electrophorus; Leyden jar.
Electric discharges.
Atmospheric electricity.

(*e*) *Dynamic Electricity*—
Voltaic pile, its modifications.
Effects of the current.
Electro-dynamics.
Electro-magnetism.
Voltaic Induction.
Thermo-electricity.

V.—History.

The outlines of the History of Greece and Rome.

The Historical questions shall include questions relating to the geography of the countries to which they refer.

The text books will be fixed from time to time by the Syndicate. (*See* Appendix B)

VI.—Logic.

Deductive Logic, as in Fowler (Clarendon Press Series).

BACHELOR OF SCIENCE.

The degree of Bachelor of Science may be conferred upon those persons who shall pass the Examination prescribed for that degree upon the terms contained in the following regulations.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE.

1. The Examinations for these degrees shall be held annually in Calcutta and Agra, and shall commence at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year. No candidate shall be allowed to present himself for both degrees, and no one who holds one of these degrees shall be subsequently admitted to the Examination for the other.

2. Any undergraduate of the University may be admitted to either Examination, provided he has prosecuted a regular course of study in any affiliated institution for not less than two Academical years after passing the First Examination in Arts.*

3. Any candidate may be examined either for a pass or for honours in any branch. A candidate who desires to be examined for honours in any branch, must take up instead of the pass subject the corresponding honour subject. A candidate who obtains honours in any branch will be considered to have also passed in that branch. Should a candidate not have deserved honours in any branch, the examiners shall be authorized to declare that he has passed in that branch, if they consider that his attainments come up to the pass standard.

4. Every candidate shall send his application, with a certificate in the form entered in Appendix A, to the Registrar at least thirty days before the date fixed for the commencement of the Examination. If he desires to be examined for

* The Syndicate has power to make exceptions to this rule in favour of Deputy Inspectors of Schools and Schoolmasters.

Honours, he shall state in his application the subject or subjects in which he desires to be so examined.

5. A fee of thirty rupees shall be payable by each candidate. No candidate shall be admitted to either examination, unless he shall have paid this fee to the Registrar. A candidate who fails to pass or to present himself for examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to one or more subsequent examinations for either degree on payment of a like fee of thirty rupees on each occasion, provided he produces a certificate from the head of an affiliated institution showing that he has prosecuted a regular course of study for six months since the date of the last Examination to which he was admitted.

6. The Examinations for both degrees shall be conducted by means of printed papers.

7. At such time as the Syndicate shall determine, (the date to be approximately notified in the Calendar for the year) the Syndicate shall publish a list of the candidates who have passed for each degree arranged in alphabetical order, together with a list of those who have obtained Honours in each branch, arranged in two divisions, both in order of merit.

The course* for the B. A. degree shall be as follows :—

Pass Subjects.	*Corresponding Honour Subjects.*
I.—English.	I.—In addition to the pass subjects, a further course in English and the history of the English language and Literature.
II.—Mental and Moral Science, *i. e.*, Psychology, including the Psychology of Ethics and the History of Moral Systems.	II.—In addition to the pass course, the History of Modern European Philosophy and either (*a*) Pure Logic *or* (*b*) Natural Theology.

And one of the following—

III.—A second language (defined as in F. A. course).	III.—In addition to the pass course, Comparative Grammar and either a second course in the classical language or a second classical language.
IV.—History of England and History either of India or of Greece and	IV.—History of England, India, Greece and Rome, a fuller course

* The text books are fixed from time to time by the Syndicate. *See* Appendix B.

Rome. Elements of Political Economy.	of Political Economy than the pass course, and Arnold's Lectures on Modern History, *or* Mill on Representative government, *or* History of the Jews.
V.—Mathematics as in the B. Sc. course.	V.—Mathematics as in the B. Sc. Honour course.

The course* for the B. Sc. degree shall be as follows:—

Pass Subjects.	*Corresponding Honour Subjects.*
I.—English.	I.—In addition to the pass course a course of prose works on Scientific Subjects.
II.—Mathematics. Statics. Dynamics. Hydrostatics.	II.—In addition to the pass Course Analytical Plane Geometry and the Differential and Integral Calculus as defined below.

And one of the following—

III.—Physics and the Elements of Chemistry as defined below.	III.—The full course in Physics and Chemistry together with the Doctrine of Scientific Method.
IV.—Chemistry and the Elements of Physics as defined below.	IV.—The full course in Physics and Chemistry together with the Doctrine of Scientific Method.
V.—Physiology and either Botany or Zoology as defined below.	V.—Physiology, Botany and Zoology together with the Doctrine of Scientific Method.
VI.—Geology and either Mineralogy or Physical Geography as defined below.	VI.—Geology, Mineralogy and Physical Geography together with the Doctrine of Scientific Method.

Definition of Subjects.

II.—*Mathematics.*

The pass subjects shall include—

(*a*) *Statics*—

Parallelogram and triangle of forces.
Resultant of parallel forces.
Couples.
Moments.
Equilibrium. Conditions of equilibrium of any forces acting on a particle or rigid body.
Centre of parallel forces.
Centre of gravity, or centroids.
Friction.
Simple cases of tension of strings.
Levers; pulley; wheel and axle; inclined plane; screw.
Virtual velocities.

* The text books are fixed from time to time by the Syndicate. *See* Appendix B.

(*b*) *Dynamics*—

Definition and measurement of mass, force, velocity, acceleration, momentum, work, and energy.
Laws of motion.
Uniform motion.
Uniformly accelerated motion—
(1) In a straight line.
(2) In a parabola.
(3) In a circle.
Simple cases of impact.

(*c*) *Hydrostatics*—

The transmission and intensity of fluid pressure.
Determination of component and resultant fluid pressure in simple cases.
Centre of pressure.
Conditions of equilibrium of floating bodies.
Metacentre.
Properties of elastic fluids and determination of pressure.
Specific gravity, and the methods of determining it.
Measurement of heights by the barometer.
Mixture of gases.

Description of the barometer, air-pump, common and force pumps, the diving-bell, the balloon, siphon, and Bramah's press, as applications of hydrostatical principles.

The Honour subjects shall include—

(*a*) *Analytical Plane Geometry.*

Rectangular and polar co-ordinates.
Transformation of co-ordinates.
The straight line.
The circle.
The parabola.
The ellipse.
The hyperbola.
The general equation of the second degree.

(*b*) *Differential Calculus.*

Definition of differential co-efficients.
Differentiation of functions of a single variable.
Successive differentiation.
Taylor's and Maclaurin's theorems, and their simpler applications.
Evaluation of functions which assume an indeterminate form.
Differentiation of functions and implicit functions.
Maxima and minima values of functions of one variable.
Tangents, normals, asymptotes, curvature, singular points, evolutes, involutes.
Tracing of curves.

(*c*) *Integral Calculus*—

Integration of simple functions of a single variable.
Integration of rational fractions.
Integration by formulæ of reduction.
Determination of lengths and areas of curves.

III. IV.—Physics and Chemistry.

The elements of Physics shall include the following considered with special reference to Chemistry:

(a) Heat—

Heat of combustion, absolute thermal effects and pyrometric thermal effects of chemical combination, theory of flame, theories of the source of light in luminous flames.

(b) Light—

Reflection and refraction, dispersion, spectrum analysis, chemistry of light, photography, fluorescence, double refraction and polarization, saccharimeters.

(c) Magnetism—

Magnetism, magnetic polarity, natural and artificial magnets, diamagnetism.

(d) Electricity—

Two kinds of electricity, insulators and conductors; sources of electricity, electricity developed by chemical action, voltaic electricity, various batteries, electrolysis, laws of electrolysis, electro-plating, electro-gilding.

Physics shall include—

(a) General Ideas—

1.—Wave motion:

Measurement of simple or harmonic wave motions.
Combination of wave motions.
Resolution of complex wave motions into simple or harmonic wave motions.

2.—Potential:

Definition of potential.
Calculation of potential in simple cases.
Determination of force from potential.
Fundamental propositions respecting lines of force, equipotential surfaces, and tubes of force.

3.—Elasticity:

Definition of elasticity.
Measurement of elasticity in the cases of solids, liquids, and gases.
Distinction between, and determination of, elasticity of constant temperature and of constant entropy for gases.

(b) Heat—

In addition to a more thorough acquaintance with the subject than that required for the First Arts Examination and a greater power of working problems on heat, an elementary knowledge of the principles of thermo-dynamics will be required.

(c) Light—

In this subject, more difficult questions in the determination of foci, focal lengths, &c., will be required than for the First Arts Examination. Also the following:

Spherical aberration.
Dispersion.
The formation of rainbows.

(d) Frictional Electricity—

This subject must now be taken up in connection with potential.

(e) Sound—

The laws of the production and propagation of sound determined experimentally.
Intensity, pitch, and quality of sounds.

The velocity of sound in air and other media: Doppler's principle.
Reflection and refraction of sound.
Measurement of sound vibrations and wave lengths of air.
Resonance.
Interference of sound waves. Beats.
Harmonic tones; their generation and function in sound.
Longitudinal vibration of rods and of columns of air.
Transverse vibration of strings.
Formation of Chladni's figures.
Vibrations of tuning-forks and bells.
Nature of musical sounds.
Vocal organs of man.

(f) Dynamical Electricity—

Voltaic batteries as sources of electric currents.
Action of currents on magnetic needles. Galvanometers.
Thermo-electric currents.
Definition and measurement of electric force, conductivity, resistance, and current.
Ohm's law, and its simpler applications
Laws of action of currents on currents, and their simpler applications.
Solenoids. Ampère's theory of magnetism.
Electro-magnets.
Mechanical, chemical, and heating effects of currents. Electrolysis.
Induced currents, their modes of generation and laws of action.
Ruhmkorff's coil.
Electro-magnetic currents.
Electro-magnetic machines; the more important details of the working of telegraphs.
Theories of electricity.

(g) Magnetism—

Properties of permanent and artificial magnets.
Magnetic induction.
Phenomena of terrestrial magnetism.
Determination of declination, dip, and intensity of the magnetic force of the earth.
The compass needle
Methods of magnetisation.
Determination of magnetic laws of action by the torsion balance.
Magnetic Potential.

(h) Polarization of Light—

Undulatory theory of light.
Reflection and refraction of light.
Prismatic analysis of light.
Achromatism.
Explanation of lines in the solar and other spectra
Interference of light.
Diffraction of light.
Measurements of wave lengths of light.
Colours of thin plates.
Double refraction.

Polarization of light by reflection, refraction, and double refraction.
Interference of polarized light as shown by double refracting crystals.
Polariscopes.
Elliptic and circular polarization.
Rotary polarization.

The Elements of Chemistry shall include :—

(*a*) The following general considerations :
Definition of Chemistry ; differences between chemical action and the action of the physical forces ; simple and compound matter ; different modes of chemical action ; combining weights, volume weights ; principles of chemical nomenclature, symbolic notation, graphic notation ; chemical equations ; atoms and molecules ; general knowledge of atomicity of elements ; simple and compound radicals ; classification of elements.

(*b*) A fairly complete knowledge of the modes of occurrence, methods of preparation, properties, uses, and general characters of the following non-metallic elements, of their allotropic modifications, and of their principal and best known compounds :
Hydrogen, fluorine, chlorine, bromine, iodine.
Oxygen (and ozone).
Boron.
Carbon, silicon.
Nitrogen, phosphorus, arsenic.
Sulphur.

(*c*) A general knowledge of :
The distinctions between non-metals and metals.
Acids, bases, and salts
The constitution of salts.
The principles of crystallography.

(*d*) A knowledge of the methods of preparation, properties, and uses of the following metals and their principal salts :
Sodium, potassium, ammonium, silver.
Calcium (glass manufacture, &c.), magnesium, zinc, copper, mercury.
Gold.
Lead, tin, platinum, aluminium (porcelain, pottery, &c.).
Antimony, bismuth.
Chromium, manganese, iron.

Chemistry shall include in addition to a fuller knowledge of the subjects specified under the head, Elements of Chemistry.

Inorganic Chemistry—

(*a*) General considerations :—
Laws of chemical combination, equivalents, atomic weights, physical and chemical relations of atomic weights, specific or atomic volumes, a more complete knowledge of the subject of atomicity or quantivalence, artiads, perissads, &c. ; variations of atomicity ; absolute, latent, and active atomicity ; relations between atomic weight and quantivalence, chemical affinity, influence of pressure on chemical action, relations of heat to chemical affinity, &c. ; physical properties of metals, chemical relations of metals, alloys, general characters and general methods of preparation of compounds of metals with non-metals, theory of normal, acid and basic salts, isomorphism, the principles of qualitative analysis.

(*b*) Study of the following elements :—

Selenium, tellurium, lithium, cæsium, rubidium, barium, strontium, the earth metals, cadmium, indium, gallium, titanium, vanadium, uranium, tungsten, molybdinum, nickel, cobalt, and the platinum metals.

(*c*) A knowledge of the methods used in the preparation of the more important acids, salts, &c., employed in the arts and manufactures.

(*d*) A knowledge of metallurgical operations, such as are employed in the preparations of iron, zinc, copper, lead, tin, mercury, silver, and aluminium.

Organic Chemistry—

(*a*) The following general considerations :—

Definition of organic bodies, synthesis from inorganic materials, decompositions and transformations of organic compounds, analysis of organic bodies.

Determination of the specific gravity of gases and vapours.

Determination of empirical, rational, and constitutional formulæ; theory of types, classification of organic compounds, organic series, constitutional formulæ of organic compounds.

(*b*) Isomerism, metamerism, and polymerism; physical properties of organic compounds.

A knowledge of some few typical compounds in each of the different classes of organic compounds.

V. Physiology shall include :—

(1) A course of practical instruction in Elementary Biology.
(2) General Physiology.
(3) Special Physiology of the Vertebrata.
(4) Special Physiology of the Invertebrata.

Botany shall include :—

(*a*) The morphology and histology of flowering plants; the general principles of their classification on the systems of Linnæus and de Candolle, with a detailed acquaintance with the characters of the following natural orders:

Anonaceæ.	Apocyneæ.
Menispermaceæ.	Asclepiadaceæ.
Nymphæaceæ.	Convolvulaceæ.
Papaveraceæ.	Solanaceæ.
Cruciferæ.	Boragineæ.
Malvaceæ.	Acanthaceæ.
Sterculiaceæ.	Verbenaceæ.
Tiliaceæ.	Labiatæ.
Aurantiaceæ.	Amarantaceæ.
Ampelideæ.	Urticaceæ.
Anacardiaceæ.	Euphorbiaceæ.
Leguminosæ.	Palmeæ.
Myrtaceæ.	Aroideæ.
Combretaceæ.	Commelynaceæ.
Cucurbitaceæ.	Orchidaceæ.
Umbelliferæ.	Scitamineæ.
Rubiaceæ.	Cyperaceæ.
Compositæ.	Gramineæ.

(*b*) A general acquaintance with the morphology, histology, and classification of cryptogams.

(*c*) Vegetable physiology.

Zoology shall include:—

Embryonic development and comparative anatomy of the principal orders of animals, ordinal classification of the animal kingdom, and generic classification of one selected order of Vertebrata and one of Invertebrata, to be notified beforehand. The geographical distribution and habitats of animals. The species of the mammals of India, omitting the micro-mammalia, *viz.*, Insectivora, Rodentia, and Chiroptera; and the Indian genera of one order of Reptilia and one of Aves, to be previously notified.

VI. Geology shall include:—

The classification, structure, and formation of rocks. The evidence of past changes afforded by their present condition, and a practical acquaintance with their mineral characteristics, to be tested by specimens. The generic determination of the most characteristic fossil forms, and the indication of age and habitat which they afford. A practical knowledge of fossil forms, to be tested by specimens. A general knowledge of the geology of Great Britain and Western Europe, and a more detailed knowledge of the geology of India An acquaintance with geological maps, to be tested by the construction of a geological section from a given map.

Mineralogy shall include:—

(*a*) General characteristics of minerals.

(*b*) Crystallography of the structure of minerals, fundamental forms of crystals, cleavage, secondary forms, compound crystals, dimorphism, irregularities of crystals, measuring angles of crystals, massive minerals, columnar structure, lamellar and granular structure, pseudomorphous crystals.

(*c*) Physical properties of minerals; lustre, colour, diaphaneity, refractions and polarization, phosphorescence, electricity and magnetism, specific gravity, hardness, state of aggregation, fracture, taste, odour.

(*d*) Chemical properties of minerals; action of acids, &c., on minerals; blow-pipe re-actions of minerals.

(*e*) Classification of minerals.

(*f*) Description and recognition of the more important minerals, and rocks or mineral aggregates.

(*g*) Chemical composition and formulæ of minerals.

Physical Geography shall include:—

The form and density of the earth, and modes of ascertaining them. The distribution and characteristic geographical phenomena of land and water. Climate and its determining causes. The inorganic physical geography of India. Meteorology.

EXAMINATION FOR THE DEGREE OF M. A.

1. An Examination for the degree of Master of Arts shall be held annually in Calcutta, commencing at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

2. Any candidate who has passed the B. A. or B. Sc. Examination may be examined for the degree of M. A. in one or more of the following branches:

(1.) Languages.
(2.) History.
(3.) Mental and Moral Philosophy.
(4.) Mathematics.
(5.) Natural and Physical Science.

3. A fee of rupees fifty shall be payable by each candidate. No candidate shall be examined unless he shall have paid this fee to the Registrar. A candidate who fails to pass or to present himself for Examination shall not be entitled to claim a refund of the fee.

4. Every candidate shall intimate to the Registrar the branch or branches in which he desires to be examined. Such intimation must reach the office of the Registrar at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

5. The Examination in languages shall be in English for candidates whose vernacular is not English, or in any one of the following classical languages, *viz.*, Greek, Latin, Sanskrit, Arabic, Persian, Hebrew and Pali.

The subjects in languages shall be selected by the Syndicate two years before the Examination.

The Examination shall include written answers in English to questions relating to the books selected for the Examination.

It shall also include questions on Comparative Grammar, with special reference to the language professed by the candidate.

Every candidate shall be required to write an Essay in English on a subject connected with the History or Literature of the Language professed by him.

The Examination in English shall include the elements of Anglo-Saxon grammar.

The Examination in the classical languages shall include translation into English from the language professed by the candidate, and into that language from English.

6. The Examination in History* shall be in the following subjects:

(*a*) The History of England (including Scotland, Ireland and the British Colonies and Dependencies) to the accession of Queen Victoria.

* For text-books *see* Appendix B.

(*b*) The Constitutional History of England.
(*c*) A selected period of History—Indian or European Ancient, Mediæval, or Modern—to be studied with reference to original sources
(*d*) Political Philosophy, General Jurisprudence, and International Law.
(*e*) Political Economy and Economic History.

Candidates shall also be required to write an Essay in English on some subject included in the foregoing course.

7. The Examination in Mental and Moral Philosophy shall be in the following subjects:

Logic, Deductive and Inductive.
Psychology.
Ethics.
Natural Theology *or* The Evidences of Christianity.

The above subjects shall be studied historically in the works of the principal authorities.*

8. The Examination in Mathematics shall be in the following subjects:

(1) Algebra.
(2) Plane Trigonometry.
(3) Theory of Equations and the Elements of Determinants.
(4) Analytical Plane Geometry.
(5) Analytical Solid Geometry.
(6) Differential Calculus.
(7) Integral Calculus, omitting elliptic integrals and the calculus of variations.
(8) Differential Equations.
(9) Statics.
(10) Dynamics of a Particle, omitting the more complicated problems of constrained motion upon surfaces, and also propositions involving the application of the calculus of variations.
(11) Hydromechanics, omitting the theory of sound.
(12) Geometrical Optics, omitting the formulæ for the calculation of spherical aberration, and reflection and refraction at surfaces in any manner.
(13) Spherical Trigonometry omitting the parts which are not required in Astronomy.
(14) Practical and Spherical Astronomy.
(15) Newton's Principia, sections I to III.
(16) Rigid Dynamics, including the motion of Rigid Bodies in two dimensions.

9. Candidates in Natural and Physical Science shall be allowed to select alternatively two out of the following group of subjects:

(A) Chemistry.
(B) Electricity and Magnetism.
(C) Heat and the elements of Molecular Physics.

* For text-books *see* Appendix B.

Or two out of the following group—

(D) Botany.
(E) Physiology and Zoology.
(F) Geology and Mineralogy.

(A) The course in chemistry shall be both theoretical and practical. In the practical Examination candidates ought to shew a good knowledge of chemical manipulation and ought to be able to qualitatively analyse complex inorganic substances. They should also be acquainted with the principles of quantitative analysis.*

(B) The course in Electricity and Magnetism shall include questions presupposing a moderate acquaintance with the principles and methods of the Differential Calculus, Integral Calculus and Differential Equations. The candidate shall be required to show that he has a competent practical knowledge of the instruments and apparatus employed in Magnetism and Electricity, and to execute experiments in the presence of the Examiner.*

(C) The course in Heat shall include questions presupposing acquaintance with the principles and methods of the Differential Calculus, Integral Calculus, and Differential Equations. The candidate should also show himself thoroughly acquainted with the various instruments and apparatus employed in Heat, and should be prepared to perform measurements and experiments in the presence of the Examiner.*

(D) Botany* shall include the following—

(*a*) General and special Morphology and Physiology.
(*b*) Systematic Botany.
(*c*) Palæobotany.
(*d*) Practical knowledge of indigenous Indian plants, and identification of specimens of them by Roxburgh's *Flora Indica* (Clarke's edition)

(E) Zoology* shall include the subjects of (*a*) Comparative Anatomy and Physiology, (*b*) Distribution and (*c*) Evolution.

(F) Geology and Mineralogy* shall include the subjects of (*a*) Stratigraphical Geology, (*b*) Palæontology, (*c*) Mineralogy, (*d*) Crystallography, (*e*) Elementary Inorganic Chemistry.

10. As soon as possible after each Examination for the degree of M. A., the Syndicate shall publish a list of candidates who have passed, arranged in three classes, each in order of merit. Candidates shall be bracketed together, unless the Examiners are of opinion that there is clearly a difference in their merits. Each successful candidate shall receive with his degree of M. A. a certificate setting forth the subject in which he was examined, and the class in which he was placed.

11. The candidate who shall be placed first in the first class in each branch shall receive a Gold Medal and a prize of books to the value of one hundred rupees, and the second student of the first class in each branch shall receive a Silver Medal and a prize of books to the value of one hundred rupees.

* For text-books *see* Appendix B.

12. Any Master of Arts may, on payment of a fee of fifty rupees, be admitted to the M. A. Examination in any branch other than that in which he was previously examined, and may, if his attainments come up to the standard prescribed for the degree of M. A., be granted a certificate to that effect, stating the class in which he has passed. A candidate who fails to pass, or to present himself for Examination, shall not be entitled to claim a refund of the fee.

61. The Registrar submitted certain dates and facts which he had ascertained with respect to the life of the late Sir Cecil Beadon, K. C. S. I.

RESOLVED—

That the following inscription be put upon the pedestal of Sir Cecil Beadon's bust.

SIR CECIL BEADON, K. C. S. I.
FELLOW OF THE UNIVERSITY OF CALCUTTA,
LIEUTENANT-GOVERNOR OF BENGAL,
FROM APRIL 1862 TO APRIL 1867.
BORN 22ND DECEMBER 1816.
DIED 18TH JULY 1880.

62. The Registrar recommended that the portion of Mr. Lethbridge's Selections to be read for the Entrance Examination of 1882 be the prose extracts made by him from the works of the following authors: Johnson, Smollett, Burke, Sydney Smith, Scott, Heber, Irving, Napier, Dickens, Smiles, Newman, Helps, Kingsley, Matthew Arnold, Max Muller, Hunter, Wheeler, Palgrave.

RESOLVED—

That the above-mentioned prose extracts be appointed for the Entrance Examination of 1882, and that a notification to this effect be inserted in the Gazette of India.

63. Read the following letter from the Under-Secretary to the Government of India in the Home Department.

No. 241.

From

F. C. DAUKES, Esq.,

Under-Secy. to the Govt. of India.

To

THE REGISTRAR OF THE CALCUTTA UNIVERSITY.

Simla, the 2nd August 1881.

Home Dept. Education.

Sir,

In reply to your letter No. 1116, dated the 19th ultimo, I am directed to say that the Governor-General in Council is pleased to approve under Section 8 of Act II of 1857, the change in the Regulations in Arts of the Calcutta University proposed therein, which has been recommended by the Syndicate and sanctioned by the Senate.

I have, &c.,

(Signed) F. C. DAUKES,

Under-Secy. to the Govt. of India.

Ordered—

To be recorded.

64. Read a letter from Kedarnath Banerjee, second clerk in the University office, submitting a medical certificate, and praying for six months' extension of leave, as therein recommended.

Resolved—

That the leave asked for be granted, and that the present arrangements for carrying on the work of the office be continued.

65. Read the following letter from the Hon'ble Maharaja Jotendramohan Tagore, Bahadur, C. S. I.

Calcutta, October 8th, 1821.

My dear Sir,

If I may be permitted to suggest a site for the statue of my uncle the late Hon'ble Prasanno Koomar Tagore, I would have it placed at the centre of the covered portico of the Senate House.

Yours, &c.,

(Signed) JOTENDRAMOHAN TAGORE.

RESOLVED—

That the site recommended by the Hon'ble Maharaja Jotendramohan Tagore, Bahadur, C. S. I. be approved.

66. Read a letter from Syed Ali Muhammad, Secretary to the Zabdat ul Madaris Government Aided School, forwarding two copies of his work "Surat ul Khyal," with the request that it may be made a text-book in Urdu for the Entrance Examination of the University.

RESOLVED—

That the work be referred to a Committee consisting of the following gentlemen:

MAJOR H JARRETT.	MAULVI KABIRUDDIN.
NAWAB ABDUL LATIF KHAN, BAHADUR.	MUNSHI MUHAMMAD YUSUF.

67. Read a letter from Babu Yasudanandan Sarkar forwarding a copy of his Sanskrit grammar entitled Sanskrita Vyákaraṇa Sanjivani, with the request that it may be made a text-book for the Entrance Examination.

RESOLVED—

That the work be referred to a Committee consisting of the following gentlemen.

RAI RAJENDRA LAL MITRA, BAHADUR, D. L.	THE REV. A. F. RUDOLF HOERNLE, PH. D.
THE REV K. M. BANERJEE, D. L.	PANDIT MAHESCHANDRA NYAYARATNA, C. I. E.

68. Read a letter from Babu Yasudanandan Sarkar forwarding a copy of his "Elements of Plane Geometry in 48 propositions," and requesting that the book may be substituted for Euclid in the Entrance Examination of the University.

ORDERED—

That the Registrar inform the applicant that the Syndicate do not think it desirable to recommend to the Senate the change in the Regulations for the Entrance Examination which he has suggested.

69. Read a letter from the Rev. George Baugh, forwarding a copy of "Selections from Modern English authors for the use of candidates for the Entrance Examination of the Indian Universities illustrated and annotated by the Rev. K. S. Macdonald," and expressing a hope that the book may be used in Colleges where such works may be needed.

ORDERED—

That the Registrar inform the Rev. George Baugh that the Syndicate do not consider the work suitable as a text-book for any of the University Examinations.

70. Read a letter from Mr. Henry Croley forwarding a copy of his "Geography of the Eastern Peninsula" and requesting to be allowed to sit for the M. A. Examination of the University of Calcutta.

ORDERED—

That the Registrar inform Mr. Henry Croley that as he is at present engaged in educational work in the Madras Presidency, the Syndicate do not think it desirable to recommend to the Senate, that he should be admitted by special order as a candidate for the M. A. Examination of the University of Calcutta.

71. Read a letter from the Rev. W. Hastie, B. D. forwarding a copy of his "Elements of Philosophy, Part I," and requesting that it may be substituted for Sections IX—XIX of Reid's Enquiry and for Part IV of Abercrombie, in the First Arts course.

ORDERED—

That the Registrar inform the Rev. W. Hastie, B. D., that the Syndicate have no power to make the alteration which he suggests, and that, as they are now engaged by request of the Senate in framing a new set of Regulations for the F. A. Examination, by which Psychology will be excluded from it, they do not see their way to recommending to the Senate any change in the existing Psychological text-books.

72. Read a letter from the Director of Public Instruction, British Burmah, suggesting that Burmese be added to the list of languages prescribed for the F. A. Examination.

ORDERED—

That the Registrar point out to the Director of Public Instruction, British Burmah, that, as Burmese is not a classical language, the Syndicate have no power to add it to the list of languages prescribed for the F. A. Examination, and inform him that they do not consider it desirable to recommend to

the Senate such a change in the Regulations for the F. A Examination as would make it possible for them to do so.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 12.

THE 19TH NOVEMBER.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE REV. K. M. BANERJEA, D. L.
NAWAB ABDUL LATIF KHAN, BAHADUR.
RAI RAJENDRALALA MITRA, BAHADUR, D. L., C. I. E.
RAJA HARENDRAKRISHNA, BAHADUR.
RAI JAGADANANDA MUKERJEE, BAHADUR
H. F. BLANFORD, ESQ.
BABU PRASANNAKUMAR SARBADHIKARI
CHARLES H. TAWNEY, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
DR. K. MCLEOD.
BABU OMESHCHUNDER DUTT.
THE HON'BLE H. J REYNOLDS.
H. B. MEDLICOTT, ESQ.
DR. H. CAYLEY.
PANDIT MAHESCHANDRA NYAYARATNA, C. I. E.
THE REV. FATHER E. LAFONT, S. J., C. I. E.
REV. J. E. PAYNE.
W. C. BONNERJEE, ESQ.
THE REV. J. ROBERTSON.
A. PEDLER, ESQ.
THE REV. A. RUDOLF HOERNLE, PH. D.
THE REV. W. HASTIE, B. D.
F. J. BIDEN, ESQ.
BABU SURYYAKUMAR SARBADHIKARI.
A. M. NASH, ESQ.
BABU GOVINCHUNDER DUTT.
THE REV. H. FINTER.
BABU KRISHNABIHARI SEN.
THE REV. K. S. MACDONALD, M. A.
W. T. WEBB, ESQ.
J WILSON, ESQ.
BABU LALMADHAB MUKERJEE.

73. The Regulations for the F. A., B. A., B. Sc. and M. A. Examinations drawn up by the Syndicate in accordance with a resolution of the Senate passed on the 17th of September 1881, having been circulated to all the members of the Senate, were taken as read.

Read a letter from the Hon'ble Syud Ahmed Khan, C. S. I., and a letter from Pandit Maheschandra Nyayaratna, C. I. E., Offg. Principal of the Sanskrit College, Calcutta.

The Hon'ble A. Wilson moved that the regulations drawn up by the Syndicate in accordance with a resolution of

the Senate passed on the 17th of September be substituted for the Regulations now in force for the First Examination in Arts, for the degree of Bachelor of Arts, for Honours in Arts, and for the Examination for the degree of M. A.

Mr. A. W. Croft, seconded the motion.

Dr. K. McLeod proposed the following amendment:

That in para. 1 of the proposed Regulations for the degree of Bachelor of Arts and for the degree of Bachelor of Science the words "and no one who holds one of these degrees shall subsequently be admitted to the Examination for the other" be omitted, and that the following words be substituted for them, "in the same year."

Dr. Rajendralala Mitra seconded the amendment. The votes being equal, the Vice-Chancellor gave his casting vote against the amendment.

The Rev. W. Hastie then proposed the following amendment:

That in para. 1 of the proposed Regulations for the degree of Bachelor of Arts and for the degree of Bachelor of Science the word "subsequently" be omitted.

Mr. A. W. Croft seconded the amendment which was carried.

The Rev. W. Hastie then proposed the following amendment:

That in para. 7 of the proposed Regulations for the First Examination in Arts the words "as in Fowler (Clarendon Press Series)" be omitted after "Deductive Logic."

Mr. F. J. Biden seconded the amendment which was carried.

The Rev. W. Hastie then proposed the following amendment:

That in para. 10 of the proposed Regulations for the degree of Master of Arts for the words "arranged in three classes each in order of merit" the following words be substituted "arranged in two classes, an honour class and a pass class, each in order of merit."

Nawab Abdul Latif, Khan Bahadur, seconded the amendment which was lost.

Mr. A. M. Nash then proposed the following amendment:

That in para. 11 of the proposed Regulations for the degree of Master of Arts the following words be inserted after the words "one hundred rupees,"

"provided that such candidates be of not more than five years' standing from Entrance."

Mr. W. T. Webb seconded the amendment which was lost.

Pandit Maheschandra Nyayaratna then proposed the following amendment:

That in para. 12 of the proposed Regulations for the degree of Master of Arts for the words "was previously examined" the following words be substituted, "has previously passed."

Dr. K. M. Banerjea seconded the amendment which was carried.

The amended motion was then put in the following form. That the regulations drawn up by the Syndicate in accordance with a resolution of the Senate passed on the 17th of September, with the alterations now introduced into them by the Senate, be substituted for the Regulations at present in force for the First Examination in Arts, for the degree of Bachelor of Arts, for Honours in Arts, and for the Examination for the degree of M. A.

The amended motion was carried.

Mr. F. J. Biden then moved—

That the new Regulations do not come into force, as regards the F. A. Examination, till 1884, and as regards the other Examinations affected thereby, till 1885.

Mr. A. W. Croft seconded the motion which was carried.

CHARLES H. TAWNEY,

Registrar.

(Confirmed,)

ARTHUR WILSON,

Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THR YEAR 1881-82.

No. 5.

THE 26TH NOVEMBER.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

A. W. CROFT, ESQ.
THE HON'BLE H. J. REYNOLDS.
DR. H. CAYLEY.
W. C. BONNERJEE, ESQ.

74. The Registrar reported that he had arranged with the Rev. W. Hastie to hold the Entrance and F. A. Examinations in the General Assembly's Institution in addition to the Senate House.

RESOLVED—

That the Entrance and F. A. Examinations of the current year be held in the General Assembly's Institution in addition to the Senate House; and that the Rev. W. Hastie, B. D. be appointed to superintend the Examinations at the former place, and receive therefor a remuneration of Rs. 200.

75. The Registrar reported that it was necessary to notify beforehand the portions of Botany in which candidates for the approaching L. M. S. and M. B. Examinations were to be examined.

ORDERED—

That the Registrar consult Dr. King and report the action taken by him at the next meeting of the Syndicate.

76. The Registrar reported that it was necessary to appoint Examiners in Law for the approaching B. L. Examination.

RESOLVED—

That N. N. Ghose, Esq., and Dr. T. N. Mitra be appointed Examiners in Law.

77. The Registrar requested that some gentleman might be appointed to assist him in tabulating the results of the Entrance and F. A. Examinations.

RESOLVED—

That Mr. A. M. Nash be appointed on a salary of Rs. 400.

78. Mr. A. W. Croft and the Hon'ble H. J. Reynolds were appointed Moderators in Arts for the current Academical year.

79. Mr. R. Lydekker was appointed Examiner in Zoology and Physiology for the ensuing B. A. Examination.

80. Read the following letter from the Registrar of the Madras University.

MADRAS UNIVERSITY,
Registrar's Office, 17*th October*, 1881.

DEAR SIR,

P. Sankar Narayan a B. A. of this University and a teacher in the Presidency College School has requested me to write to you on a matter regarding which he addressed you some time ago, I believe.

He intends to appear for the M. A. Examination of this University in January next. With a view to make himself eligible to compete for the Premchand Roychand Studentship Examination in 1883, he wishes to appear at your M. A. Examination in January 1882.

Will you kindly let me know whether he can appear at your M. A. Examination after having passed at ours; and whether, in the event of his being permitted to do so, the examination papers could be sent to Madras, as only a week intervenes between the close of our examination and the beginning of yours, leaving the candidate little time to get to Calcutta.

Truly yours,
(Sd.) D. DUNCAN.

C. H. TAWNEY, ESQ., M. A.

ORDERED—

That the Registrar inform the Registrar of the Madras University that, as the Premchand Roychand Studentship was instituted for the benefit of the students of this University, the Syndicate do not feel inclined to admit the applicant to the M. A. Examination simply in order that he may be made eligible to compete for the abovementioned studentship.

81. Read a letter from Dr. Saurendramohan Tagore forwarding a set of his works in English, Sanskrit, Bengali and Hindi, for the University Library.

ORDERED—

That the works be placed in the Library, and the thanks of the University be conveyed to Dr. Saurendramohan Tagore.

82. Read a letter from the Chairman, Committee of Management, Burdwan Raj, enclosing an application from the Maharaja of Burdwan for the affiliation of the Maharaja's High School, Burdwan, up to the F. A. Standard.

RESOLVED—

That the affiliation of the Maharaja's High School, Burdwan, up to the Standard of the First Examination in Arts, with effect from the 1st of January 1882, be recommended for the sanction of the Governor-General in Council.

83. Read a letter from the Head Master, High School, Moulmein, requesting that Moulmein may be made a centre for holding the Entrance Examinations of the University.

RESOLVED—

That the Head Master, High School, Moulmein, be requested to submit his application through the Director of Public Instruction, British Burmah.

84. Read a letter from J. Nesfield, Esq., Inspector of Schools, Oudh, stating that Purnachandra Mukerjee was sent up to the First Arts Examination in 1879 by the Rev. K. S. Macdonald in violation of the rules of the University.

Read also a letter from the Rev. K. S. Macdonald stating the circumstances under which Purnachandra Mukerjee was sent up to the F. A. Examination in 1879.

RESOLVED—

That the case is not one that calls for the interference of the Syndicate.

85. The Registrar reported that he had arranged with the Secretary, Local Education Committee, Dehra, to hold the Entrance Examination of a female candidate at that station.

RESOLVED—

That the Registrar's action be approved.

86. The Registrar reported that he had asked Dr. Forchhammer to set a paper in Pali for the F. A. Examination.

RESOLVED—

That Dr. Forchhammer be appointed Examiner in Pali for the F. A. Examination of the current year.

87. The Registrar submitted for the approval of the Syndicate certain proposed alterations in the Regulations for the L. M. S. and M. B. Examinations.

ORDERED—

That the Registrar circulate the proposed alterations, with the Proceedings of the Faculty of Medicine during the current year to all the Members of the Syndicate.

88. Read a memo. from the Under-Secretary to the Government of India in the Home Department, forwarding copy of a Resolution by the Governor-General in Council with regard to the pay of menial servants.

RESOLVED—

That the pay of the Duftry be raised from Rs. 7 to Rs. 8; of the 1st Peon from Rs. 7 to Rs. 8; of the 2nd Peon from Rs. 6 to Rs. 7; of the Bearer from Rs. 6 to Rs. 7; of the Durwan from Rs. 6 to Rs. 7, and of the Sweeper from Rs. 5 to Rs. 6.

89. Read a letter from the Inspector of Schools, Eastern Bengal Circle, requesting that the order permitting Chintaharan Mukhopadhyay to appear at the Entrance Examination of the current year may be cancelled, on the ground that he is not of good moral character, having by false representations, in evasion of the Inter School rules obtained admission into the first class of the Rup Lal School.

RESOLVED—

That the Syndicate cannot refuse to permit the candidate Chintaharan Mukhopadhyay to appear at the Entrance Examination of the current year, as it does not appear that any Regulations of the University have been infringed in his case.

CHARLES H. TAWNEY,
Registrar.

(Confirmed),
ARTHUR WILSON,
Vice-Chancellor.

MINUTES

OF

THE FACULTY OF ENGINEERING

FOR THE YEAR 1881-82.

No. 3.

THE 20TH DECEMBER.

Present:

H. C. LEVINGE, ESQ., *President, in the Chair.*

H. B. MEDLICOTT, ESQ., M. A., F. G. S., F. R. S.
A. W. CROFT, ESQ.
J. S. SLATER, ESQ.
BABU RADHIKAPRASAD MUKERJEE.

90. Read opinions from the following members of the Faculty; Mr. John Eliot, Mr. H. B. Medlicott, and Babu Radhikaprasad Mukerjee.

Read also some remarks on the proposed courses in Engineering by Messrs. Horne and Odling laid before the meeting by the President.

RESOLVED—

(1.) That in the subject Pure and Mixed Mathematics, under the head Plane Geometry and Geometrical Conic Sections, Euclid, Book XI to prop. 21 be omitted.

(2.) That under the head "Statics" "Virtual Work" be omitted.

(3.) That under the head "Dynamics" the following footnote be appended to the word "Energy."

"Special importance will be attached to a thorough comprehension of the principles of Work and Energy,

and of the application of the principles to the solution of Mechanical questions."

(4.) That under the head Hydrostatics the principles of the Thermometer be omitted.

(5.) That in the subject Natural Science under the head Physics, Pneumatics and Acoustics be omitted.

(6.) That Geology be defined as follows :—

"Geology, excluding Palæontology and the Stratigraphical classification based thereon, and with special reference to the practice of Mining."

(7.) That Physical Geography be omitted.

(8.) That the head Telegraphy be omitted, and that the elements of Telegraphy be included under Physics.

(9.) That in the subject Engineering Construction, "Graphic Statics" be inserted under the head of Applied Mechanics.

(10.) That the subject of Hydrostatics be not included in the subjects for the First Examination in Engineering, as recommended in the Resolution of the Faculty at their previous meeting, but form part of the Examination for the Licence in Civil Engineering and for the Licence in Mechanical Engineering.

(11.) That the following text-book in Geology be recommended instead of Lyell's Elements of Geology; "Geikie's Manual of Geology omitting Part VI."

(12.) That it is not desirable to include in the Regulations for the Engineering Examinations of the University the condition mentioned in para. 8 of the Letter of the Director of Public Instruction, *viz.*, "that no student, after passing the Examination for the Degree or Licence receive the certificate or be admitted to the degree, until he can produce a certificate, signed by the Principal of the College, that he has completed the full course of practical training."

RESOLVED ALSO—

That the Registrar be requested in consultation with Mr. Slater to draft regulations for the Engineering Examinations of the University in accordance with the recom-

mendations contained in the letter of the Director of Public Instruction, Bengal, as modified by the resolution of the Faculty at its meeting on the 17th of August, and by the resolutions passed at the present meeting.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
H. C. LEVINGE,
President.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 6.

THE 14TH JANUARY.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE HON'BLE MAHARAJA JOTENDRA-MOHAN TAGORE BAHADUR, C. S. I.	A. W. CROFT, ESQ.
THE HON'BLE H. J. REYNOLDS.	W. C. BONNERJEE, ESQ.
	DR. H. CAYLEY.

91. The Registrar submitted the result of the Entrance Examination, from which it appeared that the number of candidates registered for Examination was 2,937, of whom 1,409 passed. Of the successful candidates, 210 were placed in the First Division, 704 in the Second, and 495 in the Third.

ORDERED—

That the names of the successful candidates be published in the Gazette.

92. The Registrar submitted the result of the First Arts Examination, from which it appeared that the number of candidates registered for Examination was 968, of whom 364 passed. Of the successful candidates 48 were placed in the First Division, 140 in the Second, and 176 in the Third.

ORDERED—

That the names of the successful candidates be published in the Gazette.

93. Upon the result of the First Arts Examination, the following were elected Duff Scholars for 1882.

1. Girindra Chandra Bandyopadhyay, Presidency College.
2. Siddheswar Chakraburti, ... Hughli College.
3. Charuchandra Basu, ... Free Church Institution.
4. Nogendra Nath Bandyopadhyay, Doveton College.

The Pachete Sanskrit prize was awarded to Rajanikanta Bhattácháryya, Sanskrit College.

94, The following gentlemen were appointed Examiners under the Regulations in Medicine in the subjects mentioned opposite their names:

Anatomy,	Dr. K. McLeod.
Chemistry,	Rai Kanailal De Bahadur.
Medical Jurisprudence,	Dr. C. J. H. Warden.
Materia Medica,	Dr. R. Harvey.
Botany,	Dr. D. D. Cunningham.
Medicine and Midwifery,	Dr. R. C. Chandra.
Surgery and Ophthalmic Surgery,	Dr. D. O'Connell Raye.
Physiology and Com. Anatomy,	J. Wood-Mason, Esq.
Pathology and Hygiene,	Dr. I. F. P. McConnell.

95. The following gentlemen were appointed to conduct the Honour and M. A. Examinations in the subjects mentioned opposite their names:

English,	Mr. W. T. Webb; the Rev. R. J. Bell.
Sanskrit,	Rev. Dr. K. M. Banerjea; Pandit Maheschandra Nyayaratna.
Arabic,	Major H. S. Jarrett.
History and Political Economy,	Mr. M J. White; the Rev. J. Robertson.
Mental and Moral Science,	Rev. W. Hastie; Mr. A. Thomson.
Mathematics,	Dr. H. W. M'Cann; Mr. W. N. Boutflower.
Physical Science,	Mr. A. Ewbank; Dr. M. Thomson.
Botany,	Dr. Geo. King.
Geology,	Mr. R. Lydekker.

96. The following gentlemen were appointed to conduct the Premchand Roychand Examinations in the subjects mentioned opposite their names:

English,	Mr. A. W. Garrett.
Latin,	Mr. W. T. Webb.
Sanskrit,	Rev. Dr. K. M. Banerjea.
Pure Mathematics,	Mr. A. M. Nash.
Mixed Mathematics,	Mr. W. Booth.
History and Political Economy,	The Rev. J. Robertson.
Mental and Moral Science,	The Rev W. Hastie.
Physical Science,	Mr. J. Eliot.

97. The Registrar reported that he had requested Mr. Lydekker to conduct the B. A. Examination in Geology.

RESOLVED—

That the Registrar's action be approved.

98. Read applications for the Tagore Law Professorship from the following gentlemen.

(The subjects in which they are prepared to lecture, are mentioned opposite their names.)

J. H. Nelson, Esq.,—"The Hindu Law of Inheritance Partition and Adoption according to the Smritis."

W. C. Niblett, Esq,—Ditto.

Professor Jolly,—Ditto.

Babu Golapchandra Sarkar,—Ditto.

Bipinachandra Ray,—Ditto.

Laurence Beale, Esq.,—"The Law of Testamentary Devise, as administered in British India."

N. N. Ghose, Esq.,—Ditto.

Gilbert Henderson Esq.,—Ditto.

Joseph A. Shearwood, Esq.,—The Law relating to negotiable Instruments.

Maulavi Obaidullah,—The Law relating to the Disposition of Property among the Muhammadans.

Ameer Ali Esq,—Ditto.

RESOLVED—

That the applications be referred to the Faculty of Law for consideration and report.

99. The Registrar reported that it had been announced at a meeting of the Senate held during the course of the previous year that the Syndicate would ask the Faculty of Arts to appoint permanent Boards of Studies chosen from among their own members for the purpose of advising the Syndicate with regard to the Selection of text-books in the various subjects of the Arts Examinations.

RESOLVED—

That the Faculty of Arts be requested to appoint so many of such Boards as may seem to them desirable.

100. Read a letter from the Inspector of Schools, Oudh, requesting that he might be informed of the grounds of the Syndicate's decision with regard to Purnachandra Mukhopadhyáya who was sent up for the F. A. Examination of 1879 by the Rev. K. S. Macdonald, Principal of the Free Church Institution.

ORDERED—

That the Registrar inform the Inspector of Schools, Oudh, that the case was one which the Syndicate could not take cognisance of without further enquiry, and that it did not appear desirable to institute such an enquiry, as the gentleman, who is alleged to have sent up Purnachandra Mukhopadhya to the F. A. Examination of 1879 in violation of the rules of the University, is no longer the head of an affiliated Institution.

101. Read a letter from the Officiating Secretary to the Government of India in the Home Department sanctioning the affiliation of the Maharaja's High School, Burdwan, to

the Calcutta University, up to the Standard of the First Examination in Arts with effect from the 1st of January 1882.

ORDERED—

To be recorded.

102. Read an application from Nanabhay Ardaseer Moos, L. C. E. of the University of Bombay, praying that he may be admitted to the Honour Examination in Civil Engineering, and that in order to obtain the M. C. E. degree he may be admitted to the F. A. or B. A. Examination.

ORDERED—

That the Registrar inform the applicant that, on forwarding a certificate shewing that he is a Licentiate in Civil Engineering of the University of Bombay, he will be admitted to the Examination for Honours in Civil Engineering, and to the First Examination in Arts of this University; that, if he passes the First Examination in Arts, he will be admissible to the degree of Bachelor of Engineering without further Examination, and to the degree of Master of Civil Engineering in due course, provided that the conditions prescribed in the Regulations for that degree are in his case fulfilled.

103. Read a letter from Aghornath Chattopadhyay, D. Sc., Edinburgh, praying that the degree of M. A. may be conferred on him without previous examination under Act XXI of 1875.

ORDERED—

That the Registrar forward to the applicant a copy of letter No. 1 of 1876 from the Government of India in the Home Department to Her Majesty's Secretary of State for India, (Minutes for 1876-77, page 9,) and inform him that the Syndicate are not able to comply with his request.

104. Read a letter from Messrs. John Eliot and Alexander Pedler, Fellows of the University, recommending certain changes in the Rules adopted by the Senate for the conduct of the Premchand Roychand Studentship Examinations.

ORDERED—

That the Registrar prepare a fresh set of rules, based upon the recommendations of Messrs. Eliot and Pedler, and

that no application for the appointment of an examination in a British Colony or Dependency will be entertained, unless made by the Government of the place where it is desired that the examination should be held, and unless such application be forwarded, as the case may be, through the Colonial or India Office at home. This rule was established by the Senate in order to obtain a sufficient guarantee for the due conduct of the examinations, if held, and as a security against the use of examinations of the University for purposes inconsistent with the duly considered interests of any colonies or places where they might be introduced. So long as this rule prevails, no examinations other than the matriculation examination, as already established, could be held in India, except upon the application of the Government of India; and as the Senate would decline to entertain applications made by persons desiring to become candidates (invariably referring such applicants to the Government of the place where they are residing), it rests with the Government of India to decide whether it would or would not be desirable to make further use of the examinations of the University. As the Senate does not take the initiative with regard to the appointment of any of the examinations held elsewhere than the University itself, the Senate does not think it advisable or necessary to state the terms on which they would arrange to hold Degree Examinations in Calcutta, until the question is brought before them by a formal application for the appointment of such examination.

I am to add, however, that wherever the examinations of the University are held, they have always been held subject to uniform conditions with regard to the right of entry and otherwise, and that it is extremely doubtful whether the Senate would feel authorised or justified in making special conditions applicable to candidates at a particular centre, whether in India or elsewhere.

Dated London, 16th July 1881.

From—ARTHUR MILMAN, Esq., Registrar of the University of London.

To—The Right Hon'ble Viscount Enfield.

I have the honour to acknowledge the receipt of Your Lordship's letter of the 12th July, enclosing copy of a despatch, with enclosures, from the Government of India, and

will take care that they are submitted to the Senate in due course.

In the meantime, however, as there would seem to be a considerable misapprehension in regard to the information which has been furnished from this office to persons enquiring whether they can be examined for the degrees of this University in India, I think it may be convenient that I should at once state, for the information of the Government of India, that no proposal for holding examinations (other than the Matriculation Examination) for the Degrees of this University has been made to the Senate, and that Mr. Douse's letter of the 17th of August last, and the letter of the Assistant Registrar, Mr. Moseley, of the 20th September, merely explained, in reply to enquiries which had been made, the formal mode of bringing an application for the appointment of an examination elsewhere than in the United Kingdom before the Senate. Mr. Douse's letter was, in fact, addressed to a gentleman who, having matriculated and passed the first B. A. Examination in England, was going out as a Missionary to India, and was anxious to ascertain if there was any possibility of his completing his course and obtaining the Degree in India.

I neither agreed, as stated in Mr. Bolton's letter No. 569 of correspondence forwarded, nor have power to agree, to the holding of an examination in India. Persons enquiring whether they can take any one or more of the examinations of the University elsewhere than in the United Kingdom, are invariably informed that applications for examinations in India or the Colonies are received by the Senate only when made by the Government of the place which it is desired to make a centre of examination; and when such applications are forwarded and endorsed by the India or the Colonial Office at home [see the printed memorandum enclosed herewith]. Each application so made is considered by the Senate on its merits, and though, no doubt, in disposing of separate applications the Senate is guided by previous usage, there is no general rule or custom of the University on the subject.

I think, under the circumstances, it is important that this should be clearly stated, as it shows that no application for the establishment of an examination in India would be entertained unless it came from the Government of India, and was forwarded through the Secretary of State, and that it rests entirely with the Government of India to make or

decline to make such application, according as it may think fit.

The appointment of centres for the Matriculation examination in India on the application of the Gilchrist Trustees was, I may remind Your Lordship, made by the Senate expressly upon the condition that the Secretary of State for India should prove willing to undertake the transmission of the examination papers and the conduct of the examination.

Examinations in the Colonies for Matriculation and for the Degrees of B. A. and LL. B.

These examinations are appointed by the Senate, from time to time, upon the application of the Governor of any Colony desiring that one or more places in the Colony may be named as a colonial centre for one or more examinations. Every such application must be forwarded to the Senate through the Colonial Office at home.

The examinations are conducted in every respect in the same way as the examinations carried on at the University; and the following conditions and Regulations must be strictly observed :—

(1) The examinations shall be conducted under the superintendence of a responsible Sub-Examiner, who shall be nominated by the Governor of the Colony, and who shall be altogether independent of the authorities of any College or Institution at which the examination may be held.

(2) The examination papers for each examination shall be sent out through the Colonial Office, addressed to the Governor of the Colony, and shall be delivered unopened to the Sub-Examiner.

(3) The examination shall be held simultaneously with the corresponding examination in London, or, in the event of accident or delay, as soon as possible after the arrival of the mail by which the papers are transmitted; and immediately on its conclusion the Sub-Examiner shall place the answers of the candidates in the custody of the Governor of the Colony, to be by him transmitted under seal by the next mail through the Colonial Office to the Registrar of the University.

(4) The Registrar, on receiving the answers, shall distribute them to the Examiners, who shall make a supple-

mental report thereon, classing the candidates, according to the Regulations, in a list by themselves, but indicating as nearly as may be, the positions which those who may be entitled to places in the Honours Division at Matriculation would have held in the *home* Honours Division if they had been examined in this country.

(5) The Honours Examination in Arts and Laws cannot be held out of England; nor are candidates who may be examined for Matriculation in the Colonies admissible to competition for the exhibitions and prizes offered by the University to candidates examined in the United Kingdom; but scholarships depending upon the results of the Matriculation Examination are offered for competition in some Colonies by the Trustees of the "Gilchrist Educational Fund." The University has no control over these scholarships; and information concerning them can only be obtained from the Secretary of the "Gilchrist Educational Fund," 4, Broad Sanctuary, Westminster, London, S. W.

(6) Under existing arrangements examinations will, until further notice, be held at various Colonial centres as follows:—

January Matriculation.

East Indies (Calcutta, Bombay, Madras).

West Indies (Jamaica, Barbados, Trinidad, Demerara).

June Matriculation.

Canada (Quebec, Montreal, Kingston, Toronto, Ottawa, Halifax, Fredericton).

Newfoundland (St. John's).

New Zealand,—biennially.

Tasmania,—biennially, in alternation with New Zealand.

Applications for the institution of other Colonial examinations should be forwarded through the Colonial Office as early as possible in each academical year.

[*Note.*—Applications for the institution of these examinations are not received from individual candidates. Any person desiring to be examined at a Colonial centre should not apply to the University of London, but to the Government of the Colony wherein he resides, to ascertain (*a*) whether any arrangement has been already made for holding an examination in the Colony, or, if not, (*b*) whether the Government will make the necessary application to the Senate in order that such arrangement may be made.]

No. 319.

Copy, with copy of the despatch marginally noted,* forwarded to the Government of Bengal for information with reference to the letter from that Government, No. 295, dated 3rd May 1881.

* To Secretary of State, No. 7 (Education), dated 11th June 1881.

HOME DEPT.; (EDUCATION), *Simla, 11th October* 1881.

By order, F. C. DAUKES, *Under-Secretary to the Govt. of India.*

No. 7, dated Simla, the 11th June 1881.

From—The Government of India,
To—Her Majesty's Secretary of State for India.

By a resolution of the Gilchrist Trustees, communicated to us under cover of the letter from the Secretary in the Educational Department, India Office, dated 20th August 1881, the examination for the Gilchrist scholarships allotted to India was made identical with the Matriculation examination of the London University; and it was further decided that any candidate who passed the examination for the scholarship became by that very fact a matriculated member of that University.

2. The object of the Trustees in making the Gilchrist scholarship examination identical with the Matriculation examination was apparently to prevent candidates from competing for the scholarship year after year; but from a letter* received from the Government of Bengal, and its enclosures, which we have now the honour to forward, it appears that the resolution of the Trustees will have a much wider effect than that contemplated. Section XII of the Act† of Incorporation of the Calcutta University requires that every candidate for a degree shall have completed a full course of instruction in an institution affiliated to that University, while the London University makes no such requirement. The probable result of this difference in the requirements of the two Universities will be that increasing numbers of students will elect the London University, and under cover of competing for the Gilchrist scholarship, will pass the Matriculation examination of that University, and read for its degrees independently of college instruction.

* No. 295, dated 3rd May 1881.

† Act II of 1857.

3. Under these circumstances we concur with His Honor the Lieutenant-Governor of Bengal in the view that it is essential, in order to prevent a practice of desultory study from growing up, that only such persons should be admitted to be candidates for the degrees of the London University as have gone through a regular course of study in some college affiliated to the Calcutta University, or as are teachers who would be allowed to appear at the examinations of the latter University. We accordingly request that the attention of the authorities of the London University may be specially drawn to this preliminary condition of candidature, and that they may be invited to state the terms on which they would be prepared to arrange to hold degree examinations in Calcutta.

No. 1180T.

Copy of the correspondence forwarded to the Director of Public Instruction for information in continuation of Mr. Bayley's letter No. 333, dated the 9th June 1881, with the intimation that the correspondence should be published in the *Calcutta Gazette.*

By order of the Lieutenant-Governor of Bengal,
A. P. MacDONNELL,
Offg. Secretary to the Government of Bengal.

CALCUTTA;
GENERAL DEPT.—*Education.*
The 24*th October* 1881.

ORDERED—

That the correspondence be laid before the Senate at their next meeting.

107. Read a letter from W. T. Webb, Esq., recommending that the Companion Reader with notes by Messrs. Rowe and Webb be adopted by the Syndicate as a text-book in English for the Entrance Examination of 1883.

ORDERED—

That the book be laid before the Board of Studies under whose province it would fall, as soon as such a Board shall have been appointed by the Faculty of Arts.

108. The proposed alterations in the Regulations for the L. M. S. and M. B. Regulations were again brought up for consideration.

RESOLVED—

(1.) That it is unnecessary to insert in the Regulations of the University the provisions with regard to the percentage of marks to be obtained by candidates in order to pass, recommended by the Faculty of Medicine, as these provisions have already been embodied by the Syndicate in the instructions to be issued to Examiners (Minutes for the current year, page 9).

(2.) That the Syndicate recommend to the Senate at their next meeting,

That the following words be added to clause (*a*) of the second paragraph of the Regulations for the degree of Bachelor of Medicine "or of having obtained the degree of Bachelor of Arts" and that the footnote now appended to clause (*a*), *viz.*, "The words here printed in italics are to take effect as soon after 1869 as the Syndicate may order" be omitted.

And that in para. 15 of the Regulations for the degree of Bachelor of Medicine the word "two" be substituted for the word "three," and the following words be added to clause (*a*) of the above paragraph "or of having obtained the degree of Bachelor of Arts," and that the footnote now appended to clause (*a*) of the above paragraph, *viz.*, "The words here printed in italics are to take effect as soon after 1869 as the Syndicate may order" be omitted.

109. Read the following letter from Messrs. Reynolds, Medlicott, Robertson and Croft.

To the Vice-Chancellor of the Calcutta University,

Calcutta, 26th November 1881.

SIR,

We the undersigned members of the Senate beg to invite your attention to certain incongruities which appear to us to exist in the regulations adopted at the meeting of the Senate held on the 19th instant, so far as those regulations refer to the institution of the degree of Bachelor of Science. In asking your attention to that point, we wish it to be understood that we have no desire to propose any modification in detail of the standards of examination, which after full discussion have been accepted by the Senate.

It will be in your recollection that the resolution establishing the degree of B. Sc. was passed before the corresponding standard was discussed. The course which the debate subsequently took ended in results, which, as it seems to us, were not foreseen; and which, had they been anticipated, might have led the Senate to a different conclusion upon the question of instituting a separate degree in Science. The nature of the standard for that degree was chiefly determined by the following resolutions, subsequently passed by the Senate:

(1) that the number of subjects to be taken up by candidates for the Bachelor's degree should be three;

(2) that English and Mathematics should be compulsory subjects for the degree of Bachelor of Science;

(3) that a candidate should be allowed to compete by the honour standard in any one of the three subjects in which he might offer himself for examination.

From these resolutions it follows that a candidate for the B. Sc. degree, selecting the pass standard in Mathematics and in one branch of physical science, and the honour standard in English, would be declared, if successful, to have gained the degree of Bachelor of Science with honours. Even when the further provision is taken into account, that the honour standard in English shall comprise "a course of prose works on scientific subjects," the title to be conferred on the candidate appears likely to convey a somewhat exaggerated idea of his actual proficiency in physical science. We submit, therefore, that the regulations defining the standard for the degree of Bachelor of Science, whether for a pass or with honours, have so far reduced the purely scientific portion of that standard, that it no longer secures such an amount or quality of training as seems to be implied in the possession of the degree of Bachelor of Science.

We would submit, in the second place, that the regulations defining the standard for the M. A. degree and the conditions of obtaining it, present a further point of difficulty when viewed in relation to the degree of B. Sc. To a Bachelor of Science, the only higher degree that is open is that of Master of Arts. For the attainment of the former degree, as has been stated, an elementary knowledge of physical science is sufficient. For the M. A. degree, a candidate is required to show considerable proficiency in two branches of physical science. Yet the higher degree is called a degree in Arts; and under these circumstances it appears open to question whether there now remains any good ground for calling the lower a degree in science.

Should these considerations approve themselves to you, we venture to request that you will be pleased to call a meeting of the Senate with the object of re-considering so much of the new regulations as refers to the institution of the degree of Bachelor of Science.

We have the honour to be

Sir,

Your most obedient Servants,
H. J. REYNOLDS,
H. B. MEDLICOTT,
JAMES ROBERTSON,
A. W. CROFT.

RESOLVED—

That the Syndicate recommend to the Senate the following alterations in the Regulations for the Examinations for the degree of Bachelor of Arts, Bachelor of Science, and Master of Arts adopted by the Senate at their meeting on the 19th of November 1881.

That the following words be omitted

BACHELOR OF SCIENCE.

The degree of Bachelor of Science may be conferred upon those persons who shall pass the Examination prescribed for that degree upon the terms contained in the following regulations.

That the Regulations immediately following be entitled "Bachelor of Arts" instead of "Bachelor of Arts and Bachelor of Science."

That in para. 1 of the Regulations to be entitled Bachelor of Arts for the words, "The Examinations for these degrees" the words, "An Examination for the degree of Bachelor of Arts" be substituted, and that the words, "No candidate shall be allowed to present himself for both degrees, and no one who holds one of these degrees shall be admitted to the Examination for the other" be omitted.

That in para. 2 of these Regulations the words "the Examination" be substituted for the words "either Examination."

That in para. 5 of these Regulations the words "the Examination" be substituted for the words "either Examination," and the words "the degree of Bachelor of Arts" be substituted for the words "either degree."

That in para. 6 the words "Examination for the degree of Bachelor of Arts" be substituted for the words "Examination for both degrees."

That in para. 7 the words "for each degree" be omitted after the word "passed," and that the words, "At the Examination for the degree of Bachelor of Arts every candidate shall be examined in one or other of the two following courses marked A and B" be substituted for the words "The course for the B. A. degree shall be as follows."

That the course immediately following be headed A, and that the words, "The course for the B. Sc. degree shall be as follows" be omitted, and the course immediately following them be headed B, and that throughout these Regulations the course now referred to as "the B. Sc. course" be henceforth referred to as "the B. course."

That in para. 2 of the Regulations for the Examination for the degree of M. A. the words "or B. Sc." be omitted.

110. The following bills of contingencies were passed :—

			Rs.	A.	P.
1	Bill,	Messrs. Thacker, Spink and Co., Commission for selling the University Calendar, ...	98	3	0
1	„	Do. Do. for Prize books, ...	100	0	0
1	„	Do. Do. for books, ...	9	9	0
1	„	Collector of stamps for Service Postage stamps,	300	0	0
1	„	Pankha-pullers' wages from 1st August to the 15th day of September, ...	6	0	0
1	„	Duftry for making Envelopes, ...	4	11	0
1	„	Conveyance hire to Clerk on duty, ...	49	8	0
1	„	Coolies and Cartage for bringing two Cases containing Examination papers, ...	3	8	0
1	„	Municipal Corporation House Rate, 3rd quarter of 1881, ...	112	8	0
1	„	Ditto Lighting, Police, &c., 4th quarter of 1881, ...	112	8	0
1	„	Superintendent of Stationery for the value of Stationery articles	1,395	7	3
1	„	Coolies and Cartage for bringing Stationery to Office, ...	8	6	0
1	„	Superintendent Baptist Mission Press for printing jobs, ...	158	6	0
1	„	Messrs. Eyre and Spottiswoode for printing Examination papers, ...	1,552	11	2
1	„	Professor E. B. Cowell for correcting the proofs, ...	240	0	0
1	„	Telegram to Rangoon, &c., ...	2	0	0
1	„	Post Master, Calcutta, for bearing parcels containing answer papers, ...	319	8	0
1	„	For sending answer papers to Mofussil Examiners during the Entrance, F. A. and B. A. Examinations, ...	118	3	6
		Carried over, ...	4,591	0	11

		Rs	As	P.			
	Brought forward, ...	4591	0	11			
1	Bill, For 500 Zinc sheet inkstands, ...	10	0	0			
1	„ Brass wire, twine, &c., for Examination, ...	16	1	0			
1	„ For 50 teak wood desks and 125 stools, ...	355	7	6			
1	„ For repairing furniture, ...	160	1	0			
1	„ Coolies and Carters for arranging the seats in the General Assembly's Institution and the Senate House, ...	80	0	0			
1	„ Conveyance hire for arranging the seats, ...	15	0	0			
1	„ Earthen ink pots, ...	1	8	0			
1	„ Extra Duftries employed during the Entrance and F. A. Examinations, ...	23	4	0			
1	„ Ditto for B. A. and B. L. Examinations, ...	5	10	0			
1	„ Mali for supplying water to the Examinees,...	2	8	0			
1	„ Discounting cheques received from Ceylon and Benares, ...	2	8	1			
1	„ Extra bearers employed during the Examinations for distributing papers, ...	6	0	0			
1	„ Writing Armenian Question papers, ...	20	0	0			
1	„ Postage paid to insufficient letters received, ...	2	2	6			
1	„ Examination expenses incurred during the Examination held at Hughli, ...	209	14	3			
1	„ Do. Dacca, ...	335	6	0			
1	„ Do. Krishnagar, ...	177	12	0			
1	„ Do. Berhampur, ...	90	6	0			
1	„ Do. Patna, ...	189	3	9			
1	„ Do. Gauhati, ...	26	1	6			
1	„ Do. Barisal, ...	49	4	0			
1	„ Do. Bankura, ...	87	0	0			
1	„ Do. Ranchi, ...	29	12	3			
1	„ Do. Sibsagar, ...	24	14	3			
1	„ Do. Chittagong, ...	66	15	6			
1	„ Do. Lahore, ...	123	11	3			
1	„ Do. Nowgong, ...	8	3	0			
1	„ Do. Delhi, ...	49	11	0			
1	„ Do. Allahabad, ...	66	6	0			
1	„ Do. Mussoorie, ...	18	15	0			
1	„ Do. Benares, ...	98	6	6			
1	„ Do. Lucknow, ...	105	3	6			
1	„ Do. Bareilly, ...	63	2	9			
1	„ Do. Colombo, ...	28	0	0			
	K. Deighton, Esq. for superintending the B. A. Examination at Agra, ...	200	0	0			
					7,339	7	6

LIBRARY FUND.

1	Bill, Messrs. Thacker, Spink and Co. for new books, ...				108	7	0

TAGORE FUND.

1	Bill, Pioneer Press for advertisement, ...	1	13	0			
1	„ Englishman do.	6	8	0			
1	„ Statesman do.	6	8	0			
1	„ Hindu Patriot do.	6	4	0			
	Telegram to Madras, ...	1	0	0			
					22	1	0
	Total Rupees,				7,469	15	6

111. The following Entrance remuneration bill was passed :—

NAME.	Subjects.	Amount.
		Rs. As. P.
Rev. J. Edwards, ...	English.	1,076 12 0
W. Young, Esq.		1,076 0 0
J. Mann, Esq.		1,076 0 0
Rev. W. Johnson, ...		1,076 12 0
Babu Nakuleswar Banerjea, ...	Sanskrit and Bengali.	743 12 0
Babu Rajanikanta Gupta, ...		594 8 0
Babu Gopalchandra Gupta, ...		742 4 0
Babu Bireswar Chatterjea, ...		787 12 0
R. Carter, Esq.	History and Geography.	1,076 0 0
Rev. Lalbihari De, ...		1,076 0 0
Dr. P. K. Ray, ...		1,076 12 0
Dr. Rudolf Hoernle, ...		1,076 12 0
Rev. E. S. Summers, ...	Mathematics.	1,076 12 0
Very Rev. D. Van Impe SJ., ...		1,076 0 0
J. A. Martin, Esq., ...		1,076 0 0
Rev. G. H. Rouse, ...		1,076 12 0
Rev. Dr. K. M. Banerjea, ...	Hindi & Urya.	100 0 0
Major H. S. Jarrett, ...	Arabic, Persian and Urdu, morning and afternoon.	854 0 0
Rev. Dr. K. M. Banerjea, ...	translations into Hindi, Urya, Assamese and Tamil.	153 0 0
G. De Cruz, Esq., ...	Burmese.	100 0 0
Mr. Harigopal Padhya, ...	Marathi.	42 12 0
Mr. Balaji Vinayak Gokhle, ...	Gujrathi.	4 8 0
Total Rupees, ...	...	16,989 0 0

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

ENTRANCE EXAMINATION, 1881.

Comparative Table shewing the number of Candidates sent up from each School or College, the number passed and the number failing to obtain the minimum marks allotted to each separate subject.

Names of Institutions.	Number of Candidates.	Passed in the			Failed in			
		First Division.	Second Division.	Third Division.	English.	Second Language.	History and Geography.	Mathematics.
Agarpara H. C. E. School ...	3	...	...	..	3	2	...	1
Agra Collegiate School ...	11	...	2	2	6	5	5	5
Ajodhya School ..	4	...	2	1		...	..	1
Ajmere Government Collegiate School	8	1	3	2	2	...	...	...
Akyab Government High School ...	5	...	3	1	1	...	...	...
Albert Collegiate School ...	21	2	7	4	7	4	1	6
Allahabad Boys' High School ...	4	1	2	1	..	...	...	...
Allahabad Girls' High School ...	2	...	2	...	...	.	...	...
Allahabad Zila School ..	29	1	11	6	9	1	3	5
Aligarh Zila School ...	5	...	1	1	2	...	3	2
Aligarh M. A. O. College ...	16	...	7	1	4	2	4	4
American Mission School, Allahabad	9	...	3	...	6	1	4	4
Ampta School ...	3	...	...	2	1	1	1	1
Amritsar District School ...	9	1	1	1	6	...	1	2
Andul School ...	2	...	1	...	1	...	...	...
Annada School, Brahmanbaria ...	6	...	...	...	5	4	1	4
Armenian Phil. Academy ...	10	...	1		8	1	4	8
Arrah Zila School ...	25	...	1	5	16	3	9	16
Badla A. V School ...	3	..	...	...	2	2	3	2
Bagati School ..	1	...	...	.	1	1	1	1
Bagirhat H. C. E. School ...	7	...	...	1	6	1	3	3
Bagnan School ...	1	..	...	...	1	1		...
Bagnapara School ...	3	...	.	...	1	2	1	3
Bahraich Zila School ...	3	...	1	...	1	...	...	2
Baidyabati E. School ...	4	...	...	...	4	3	...	1
Balagar School ...	2	...	1	1	...	...	...	...
Balarampore School ..	4	...	...	...	4	...	4	3
Balasore Zila School ...	9	...	2	5	...	1	...	1
Carried over ...	209	6	51	34	97	35	48	75

Names of Institutions.	Number of Candidates.	Passed in the			Failed in				Absent.
		First Division.	Second Division.	Third Division.	English.	Second Language.	History and Geography.	Mathematics.	
Brought forward ...	209	6	51	34	97	35	48	75	
Balesore Lokenath H. C. E. School	2	...	...	2	...	.		.	..
Baluti H. C. E. School ...	2	...	...	...	1	...	1	1	..
Banwaribad H C. E School ...	2	..	...	...	2		2	1	..
Banda Zila School ...	5	..	1		3	1	...	1	..
Bandgorah H. C. E. School ...	10	...	1	3	4	1	2	4	.
Bankipore Training Academy ..	20	...	3	3	12	9	8	9	..
Bankipore Training Institution ...	10	...	.	...	8	8	8	7	.
Bankura Government School ...	22	1	6	6	7	5	1	5	..
Barabanki High School ...	5	...	3	...	2	.	1	1	.
Barari H. C. E. School ...	6	...	...	1	5	3	2	3	..
Barasat Government School ...	11	4	5	1	1	1		...	..
Bareilly Collegiate School ...	21	1	4	2	13	2	3	2	..
Barpeta H. C. E. School ...	1	...	...	...	1	..	..	...	..
Barrackpore School ...	9	...	4	..	3	2	1	1	1
Batala Boarding School ...	1	...	...	1	...	...	.	..	..
Beerbhum Zila School ...	25	3	8	3	9	4	...	1	1
Behala Mission School ...	6	...	1	3	1	1		2	..
Behar H. C. E. School ...	8	..	...		6	1	5	6	1
Benares Collegiate School ...	35	2	7	7	18	12	14	7	..
Benares Bengalitolah P. School ...	20	...	...	...	16	8	15	16	..
Berhampore Collegiate School ...	10	1	1	...	5	8	2	4	..
Bethune Female School ...	3	...	2	...	...	..	1	1	...
Bhagalpore Zila School ...	13	4	6	.		1		2	..
Bhastara School ...	2	...	1	...	1	...	1	...	..
Biharilal Institution ...	4	1	2	.	..	1	1	...	..
Bishenpur H. C. E. School ...	9	...	...	2	5	3	1	7	..
Bishop Cotton School, Simla ...	6	2	3	..	.	1	...	1	.
Bogra Zilla School ...	4	..	.	1	2	1	..	2	..
Barahanagar Hindu School ...	6		2	1	3	2	.	3	..
Burdwan English School ...	4	..	...	2	2	1	2	2	...
Burdwan Maharaja's School ...	11	1	2	7	...	..	..	1	.
Barisa School ...	4	...	...	3		..	..	1	..
Barisal School ...	15	4	3	4	3	...	1	1	.
Cachar Zila School ...	3	...	...	1	2	...	..	2	...
Calcutta High Shool ...	4	...	1	..	.	2	.	3	..
C. M. High School, Azimgarh ...	4	.	...	1	2	...	2	1	...
C. M. High School, Gorakpur ...	4	1	..	...	2	...	1	3	.
C. M. School, Lucknow ...	10	1	1	...	8	1	7	7	...
Carried over ...	546	32	118	88	244	114	130	183	3

Names of Institutions.	Number of Candidates.	Passed in the First Division.	Passed in the Second Division.	Passed in the Third Division.	Failed in English	Failed in Second Language.	Failed in History and Geography.	Failed in Mathematics.	Absent.
Brought forward ..	546	32	118	88	244	114	130	183	3
C. M. High School, Jabalpur ...	5	1	2	1	...	1	.	1	..
C. M School, Jounpur ...	2	..	1	1	...	...	...	...	..
C. M. High School, Meerut ..	6	...	1	1	4	...	2	2	..
C. M. School, Calcutta ...	3	...	...	...	3	3	1	3	...
Calcutta Institution ...	10	...	4	3	3	2	1	2	..
Calcutta Madrassa ...	15	3	3	4	1	2	3	3	..
Calcutta Training Academy ...	14	.	3	2	9	6	1	6	..
Campbell H. C. E. School, Chittagong ..	4	...	..	...	4	1	2	4	...
Canning College, Lucknow ...	26	...	4	6	13	4	2	5	1
Cantai H. C E School ...	1	...	1	...		...		...	..
Cawnpur Zila School ...	15	..	2	...	13	4	6	5	..
Cawnpur Memorial School ...	2	...	1	...	...	...	...	..	1
Cawnpur Girls' School ...	2	...	1	...	...	...	...	...	1
Chandernagar School ...	3	...	...	2	...	..	...	...	1
Chapra Zila School ...	11	1	5	1	1	..	1	3	1
Chatmohar Sambhunath School ...	3	...	...	1	2	1	2	.	..
Chatra English School ...	3	...	...	...	3	1	1	2	..
Chinsurah Hindu School ..	7	...	...	1	4	3	2	2	2
Chittagong Collegiate School ...	12	...	6	3	3	..	...	2	..
Christ Church School, Cawnpur ...	1	...	...	...	...	...		1	...
Chuadanga H. C. E. School ...	7	...	3	1	...	2	1	3	..
Chybassa Zila School ...	2	...	...	1	...	..	...	...	1
City Collegiate School .	38	4	11	15	5	4	1	5	...
Commillah Zila School ...	13	2	6	2		1	...	...	2
Commillah Maharaja's School ...	9	2	1	...	5	3	1	2	1
Cuttack Academy ...	3	...	1	...	2	...	...	...	..
Cutwa H. C. E. School ...	3	...	2	.	1	1	...	...	..
Dacca Collegiate School ...	45	4	18	10	6	6	1	5	...
Dacca Madrassa ..	4	...	3	..	.	1	..	...	..
Dacca School ..	16	...	...	...	14	11	14	13	..
Daulatpur H. C. E. School ...	4	...	...	..	4	1	3	2	..
Debrugarh Zila School ...	2	...	...	2	...	..	...	...	..
Dehra Girls' School ...	1	...	..	1	.	...	...		..
Delhi District School ...	12	2	4		5	...	1	...	1
Deoghar Zila School ...	9	...	..	2	7	5	3	6	.
Dewas High School ...	4	...		...	4	1	3	3	..
Dhar High School ...	4	.	1	2	1	...	...	...	..
Carried over ...	867	51	202	150	361	178	182	263	15

Names of Institutions.	Number of Candidates.	Passed in the			Failed in				Absent.
		First Division.	Second Division.	Third Division.	English.	Second Language.	History and Geography.	Mathematics.	
Brought forward ...	867	51	202	150	361	178	182	263	15
Dehradun Mission School ...	1	...	...	1	.	..	...	...	...
Dhubri Zila School ...	6	...	3	..	1	...	...	2	1
Digapatia H. C E. School ...	5	...	...	3	2	..	...	1	...
Dinajpur Zila School ...	9	1	2	...	3	1	3	5	...
Dinapur Aided School ...	6	...	...	.	6	5	3	5	..
Diocesan Boys' School ...	3	2	...	1	...	...	...		...
Doveton College ..	17	6	7	2	...	...	...	2	...
Durbar School, Jodhpur ...	2	...	...	...	1	...	...	2	...
Durbhanga Raj School ...	6	1	1	2	1	...	2	2	...
Dwarkanath School, Tangail ...	11	...	1	...	8	7	5	7	...
Free Church Institution, Calcutta .	14	2	5	3	1	3	...	1	...
F. C. Normal School ...	1	...	1	.	...	...	...	.	...
F. C. Institution, Chinsurah ...	34	...	3	3	26	18	23	21	...
Free Church Institution, Nagpur ...	26	...	1	11	9	5	10	4	...
Free School ...	4	...	...	1	...	2	1	2	...
Furidpur Zila School ...	10	3	4	2		1	...	1	...
Furrakabad Zila School ...	7	...	...	3	4	2	3	2	...
Fyzabad Zila School ...	9	...	5	2	1	...	...	1	...
Galle High School ...	4	...	2	...	1	1	...	1	...
Garbhabanipur School ...	4	...	3	...	1	1	1	1	...
Garden Reach School ...	4	2	1	...	1	1	1	1	...
Gazipur Mission School ...	12	...	1	3	5	2	4	5	...
General Assembly's Institution ...	76	1	11	11	38	38	31	40	3
Goalanda School ...	2	...	...	1	1	...	...	1	...
Gonda High School ...	4	...	2	1	1	...	...	...	...
Gossain Durgapur School ...	4	...	1	1	2	1	1	1	..
Gobardanga School ...	3	.	1	1	...		...	1	...
Gowhati Zila School ...	8	1	1	2	4	2	...	1	1
Graham School, Tangail ...	8	...	2	1	5	3	2	2	...
Gurdaspur High School ...	9	1	3	2	6	...	1	1	...
Guzrat Government School ...	17	...	6	...	9	1	7	7	...
Gya Zila School ...	12	...	4	3	3	...	2	1	1
Hamilton's School, Tamluk ...	7		1	3	1	2	...	1	1
Hare School ...	75	13	14	10	22	16	9	20	6
Harinavi A. S. School ...	7	1	2	2	3	1	...	1	...
Hashara Kalikisor School ...	2	...	1	...	1	...	...	...	...
Hazaribag Zila School ..	4	..	1	...	2	...	...	2	...
Hetampur School ...	2	...	...	...	2	...	...	1	...
Carried over ...	1302	85	292	225	532	291	291	409	28

Names of Institutions.	Number of Candidates.	Passed in the First Division.	Passed in the Second Division.	Passed in the Third Division.	Failed in English.	Failed in Second Language.	Failed in History and Geography.	Failed in Mathematics.	Absent.
Brought forward ...	1302	85	292	225	532	291	291	409	28
Hindu School ...	70	13	14	10	17	24	8	18	2
Howrah School ...	11	4	3	1	2	...		1	..
Hugli Branch School ...	30	..	8	7	9	4	10	10	...
Hugli Collegiate School ...	40	5	8	18	8	4	4	5	...
Hume's High School, Etawah ..	9	1	2	1	5	2	1	...	...
Hurdui High School ...	9	1	1	3	2	1	3	1	...
Hushiarpur District School ...	11	3	2	1	5	...	...	2	..
Ilsoba Mondali School ...	3	1	...	...	1	1	1	2	...
Indore Madrassa ...	2	..			2	1	...	1	..
Indore Residency College ..	8	..	1	1	5	1	...	2	1
Indian Institution ...	17	...	1	2	11	11	9	11	...
Intally Institution ...	2	...	...	...	2	2	1	1	...
Jabalpur High School ..	32	1	10	11	9	4	4	..	..
Jagannath School, Dacca ...	25	2	15	5	1	3	..	1	...
Jagatballabpur H. C. E School ...	1	.	1		...	...	...	...	..
Jahanabad H. C. E. School ...	3	...	...	...	1	...	2	2	1
Jalandar M. School ...	7	...	...	...	7	2	6	6	..
Jalpigari Zila School ...	5	...	...		3	4	3	5	..
Jamalpur H. C. E. School ...	5	...	..	1	1	2	1	3	..
Janye Training School ...	7	...	...	..	4	6	5	6	...
Jangipur H. C. E. School ...	6	...	1	2	3	1	1	1	...
Jaora High School ..	2	...	...	.	1	..	1	1	..
Jaynagar Institution ...	5	...	2	2	1	1		.	..
Jaynarayan's College, Benares ...	7	...	...	...	6	4	5	6	..
Jenkins' School, Cooch Behar ..	12	...	3	1	7	3	3	2	..
Jessore Zila School ...	10	1	7	1	...	...	1	...	...
Jeypur Maharaja's College ...	9	1	2	3	3	...	1	.	..
Jhenida H. C. E. School ...	2	...	1	...	...	...	...	1	..
Jhowganj H. C. E. School ...	2		...	...	2	2	2	1	..
Kalia English School ...	10	1	4	1	3	2	2		..
Kalna F. C. Mission School ...	7	...	...	..	6	3	2	4	..
Kalna Maharaja's School ...	4	...	1	1	1	1	1	1	..
Kancharapara School ...	2	...		...	2	1	2	2	..
Kandi School, Berhampur ..	13	1	6	1	4	..	4	3	..
Kandy Trinity College ...	6	...	4	...	1	1	...	1	...
Kapurthala School ...	2	...		...	2	2		1	..
Kasipur Kasinath School ...	9		1	2	6	4	3	3	...
Khulna H. C. E. School ...	4	1	...	1	1	1	...	1	..
Carried over ...	1711	121	390	301	676	389	377	514	32

Names of Institutions.	Number of Candidates.	Passed in the			Failed in				Absent.
		First Division.	Second Division.	Third Division.	English.	Second Language.	History and Geography.	Mathematics.	
Brought forward ...	1711	121	390	301	676	389	377	514	32
Konnagar H. C. E. School ...	9	1	2	2	3	3		2	..
Krishnaghar A. V. School ...	13	2	1	3	4	4	3	4	.
Krishnaghar Collegiate School ...	23	1	8	8	4	2	...	2	..
Kuchiakole Radhaballab Institution	11	..	1	5	4	2	.	2	1
Kumarcolly H. C. E. School ..	6	...	3	1	2	...	1	1	..
Kunjalal Institution, Okra ...	4	...	...	2	1	1	1	2	..
Kushthia English School ..	4	...	1	...	3	3	1	2	..
Lahore Government School ...	10	...	3	4	1	...	1	1	..
Lakhimpur High School ...	4	1	3	...	...	...	...	...	..
Lakshimipasa H. C. E. School ...	9	...	...	...	6	7	4	8	1
La Martiniere College, Calcutta ...	6	...	5	...	1	1	...	...	..
La Martiniere College, Lucknow ...	17	1	5	3	5	4	3	6	..
L. M. S. School, Mirzapur ...	2	...	...	1	...	1	..	1	...
L. M. School, Midnapur ...	10	...	1	2	6	1	3	5	...
L. M. School, Benares ...	5	...	1	2	2	2	2	1	...
L. M. S. Institution, Bhowanipur...	50	5	14	11	17	9	1	7	...
L. M. S. Institution, Baduria ...	6	...	...	...	4	4	1	3	1
L. M. S. School, Khagra ...	5	...	1	1	3	...	1	...	...
Ludiana Mission School ...	5	1	2	1	1	..	1	1	..
Magura H. C. E. School ...	6	...	2	2	1	1	...	2	...
Mahanad M. School ..	4	...	..	...	3	1	2	4	...
Mahespur H. C. E. School (Nuddea)	3	...	...	1	2	..	...	2	..
Malda Zila School ...	7	...	3	2	2	1	...	..	...
Mankar H. E. School ...	8	...	1	1	6	2	6	5	...
Matihari Zila School ...	4	...	...	...	3	1	3	2	..
Maulmain High School ...	4	1	1	...	1		...	1	1
Maulmain Town School ...	1	...		.	...		1	...	..
Metropolitan Institution ...	38	6	12	3	10	10	1	14	...
Ditto Shampuker Branch ...	28	1	7	5	13	10	6	13	..
Midnapur Collegiate School ...	12	1	6	3	1	1	.	...	...
Mirat Zila School ...	3	1	1	...	...	..	1	1	..
Mirzapur Zila School ...	5	...	2	1	2	..	...	...	..
Miss Arrakiel's School, Berhampur	1	...	1	...	...	.	.	...	...
Mission School, Almora ...	2	...	1	1	..	..	...	...	..
Mission School, Jeypur ...	2	...	...	...	1	2	2	2	...
Mission School, Lahore ...	6	...	2	...	3	2	1	1	...
Mofid Khaliq School, Aligarh ...	1	...	...	...	1	1	1	1	...
Moharany Surnamoy's School, Ulipur	4	...	...	2	2	2	1	...	..
Carried over ...	2049	143	480	368	794	467	425	610	36

Names of Institutions.	Number of Candidates.	Passed in the			Failed in				Absent.
		First Division.	Second Division.	Third Division.	English.	Second Language.	History and Geography.	Mathematics.	
Brought forward ...	2049	143	480	368	794	467	425	610	36
Moharaja Narendra Krishna's H.C.E. School, Hatugunge ...	2	...	2	..	..		...	..	...
Moharaja's School, Dumraon ...	8	...	..	...	7	2	5	7	..
Monghyr Zila School ...	8	...	2	3	2	2		1	..
Monghyr C. M. School ...	5	...		1	4	3	2	2	..
Moradabad Government School, ...	6	...	4	2	...	..	...	...	..
Muzafferpur Zila School ...	12	1	3	2	5	5	4	1	..
Mudrassa-i-Unwaria ..	4	...	1	2	...	...	...	1	..
Multan District School ...	5	1	3	1	...	...	...	..	...
Muragacha School ...	1	...	...	...	...	...	...	1	...
Mussoorie School ...	6	5	1	..	...	...	...	...	..
Muttra Zila School ..	5	...	2	...	3	...	...	1	...
Mymensingh Zila School ...	19	1	10	7	1	...	...	...	...
Nabadwip Hindu School ...	8	3	4	...	1	...	...	1	...
Nagpur City School ..	15	...	8	2	4	...	2	3	...
Nagpur Bishop School ...	7	1	...	4	1	1	1	...	...
Naral H. C. E. School ...	16	5	6	1	4	2	...	1	...
Nasirabad Entrance School ...	10	...	2	3	3	1	1	1	..
Nawab Abdul Guny's Free School	6	...	...	1	4	3	...	3	...
Nawabganj Sreedhar Bansidhar School ...	3	...	1	..	2	.	1	2	..
Nizamut School, Murshidabad ...	12	...	3	2	5	4	2	3	...
Noakhaly Zila School ...	9	1	6	1	...	1	...	1	..
Northbrook School ...	2	...	1	...	1	1	1	1	...
Nowgong Zila School ...	2	...	1	...	1	...	...	...	..
Nowgong Rajkumar College ...	3	1	2	..	...	...	...	...	...
Oriental Seminary ..	14	1	6	2	1	2	2	2	...
P. Gopinathpur School ..	8	...	...	...	7	5	8	8	..
Pachamba H. C. E. School ...	2	.	...	...	2	2	...	1	..
Pogose School ...	22	2	11	4	2	3	...	2	...
Pakur School ...	5	...	4	1	...	...	...	...	...
Palamow Government School ...	2	...	1	1	...	.	...	...	...
Pandra H. C. E. School ...	2	...	.	1	...	...	...	...	1
Patya H. C. E School, Chittagong	4	...		...	4	4	2	3	..
Patiala Maharaja's College ...	5	...	...	...	2	...	2	1	3
Patna Collegiate School ...	24	4	7	2	8	4	1	2	..
Prannath School, Satkhira ...	3	...	1	...	...	1	1	...	..
Peshawar Mission School ...	1	...	1	...	..	...	...	...	...
Carried over ...	2315	169	573	411	868	513	460	659	40

Names of Institutions.	Number of Candidates.	Passed in the			Failed in				Absent.
		First Division.	Second Division.	Third Division.	English.	Second Language.	History and Geography.	Mathematics.	
Brought forward ...	2315	169	573	411	868	513	460	659	40
Pratabgarh High School ..	7	1	3	..	3	1	1	2	...
Presidency School ...	10	.	1		8	8	3	8	..
Prince of Wales' School, Colombo .	7	...	1	1	3	3	2	4	...
Private Students ...	67	2	4	7	41	25	26	36	3
Pubna Zila School ...	8	...	3	2	...		1	2	1
Puri Zila School ...	5	...	3	1	1	1	...	.	...
Purjana H. C. E. School ...	2	...	...	1	1	...	...	1	..
Purniah School ..	2	...	...	1	1	1	...	...	...
Purulia School ...	6	...	.	...	5	3	6	6	..
Putia H. C. E School ...	6	1	1	2	2	2	1	...	...
Rajagram A S. School ...	13	...	1	1	10	5	4	8	...
Rajshaye Collegiate School ...	22	2	7	7	3	2	1	4	...
Ranaghat A. V. School ...	4	...	2	1	1	1	1	1	...
Ranchi Government School ...	6		3	1	2	1	2	2	..
Rangoon Government School ...	12	1	4	1	5	...	1	2	1
Ravenshaw College ...	14	...	2	4	6	1	2	2	...
Ray Bareilly High School ...	5	...	...	..	5	3	2	2	...
Rewari High School ...	1	1	...	...	...	..	...	...	...
Rungpur Zila School ..	10	...	4	1	4	3	1	8	...
Ruplal Raghunath School ...	23	..	1	6	9	8	...	8	1
Salkia A. S. School ...	2	...	...	..	2	2	2	2	...
Sanskrit Collegiate School ...	31	1	7	1	15	13	10	7	...
Santipur Municipal School ...	6	...	4	1	..	1	...	1	...
Santosh Jahnabi School ..	11	..	3	2	4	1	..	3	..
Saradaprasad Institution, Chakdighi	2	...	2	...	...	...	...	...	...
Seal's Free College ...	9	...	2	1	6	2	2	3	..
Searsole School ...	6	1	1	2	2	1	...	1	...
Serajgunge H. C E. School ...	10	1	2	2	4	5	1	2	...
Serampur College ...	5	1	2	...	1	1	...	...	..
Shaharanpur M. School ...	1	...	...	...	1	...	1	1	..
Shajahanpur High School ...	3	...	1	1	1	...	...	...	..
Shampukar Preparatory School ..	12	.		1	10	8	9	9	1
Shillong Zila School ...	1	...	...	...	1	...	...	..	..
Shushung Durgapur Maharaja's School ...	6	...	..	1	4	2	1	4	..
Sibpur H. C. E. School ...	7	...	1	2	4	2	2	1	...
Carried over ...	2657	181	638	462	1033	619	542	784	47

Names of Institutions.	Number of Candidates.	Passed in the			Failed in				Absent.
		First Division.	Second Division.	Third Division.	English.	Second Language.	History and Geography.	Mathematics.	
Brought forward ...	2657	181	638	462	1033	619	542	784	47
Sibsagar Zila School ..	7	.	1	1	3	2	3	3	...
Sitapur High School ...	4	1	...	...	3	..	2	1	...
Sodepur H. C. E. School ...	6	...	...	...	5	4	2	5	1
South Suburban School, Kalighat ..	19	2	5	5	5	4	2	5	..
South Baharu H. C. E School ...	6	2	2	..	1	2	..	...	...
St Francis DeSale's School, Nagpur	8	...	2	1	1	4	2	3	...
St. George's College, Mussoorie ...	4	1	3	..	...	...	...	..	...
St. James' School .	6	1	2	1	...	...	...	2	...
St. John's College, Agra ...	12	...	2	4	5	1	2	4	..
St. Joseph's School ...	8	...	1	...	3	5	..	5	...
St. Joseph's Seminary, Darjeeling...	3	2	1	...	...	...	...	...	...
St. Paul's School, Darjeeling ...	11	2	4	2	..		.	2	1
St. Peter's College, Agra ...	3	...	...	...	1	2	3	1	...
St. Stephen's H. School, Delhi .	2	...	2	...		...	...	...	...
St. Thomas' College, Colombo ...	10	6	3	1	...	...	...	...	...
St. Xavier's College ...	30	3	13	3	4	10	3	...	1
Sultanpur School ...	4	...		1	3	...	2	...	...
Sylhet Government School ...	13	2	3	3	3	...		3	...
„ National Institution ...	4	.	.	1	2	1	...	2	..
Teachers ...	28		2	1	19	3	15	19	2
Teghoria School ...	1	...	..	...	...	...	...	1	..
Tezpur Zila School ...	4	...	1	1	2	...		...	...
Tikari H. C. E. School ...	5	...	1	2	2	2	2	2	..
Ulwar High School ...	2	...	1	.	1	...	...	...	...
„ Thakur School ...	1	..	1	...	...	...	..	...	...
Unao High School ...	7	1	1	...	5	.	4	1	...
Upper Christian School ...	2	..	...	1	...	...	...	1	...
Useful Art School ...	8	1	2	..	1	1	2	3	1
Uttarpara School ...	23	4	6	2	6	2	1	4	..
Victoria School, Agra ...	3	...	2	...	1	.	...	..	.
„ „ Gazipur ...	9	...	1	2	3	1	4	3	...
Wesley College, Colombo ...	9	...	...	1	2	3	5	6	
Wesleyan Mission School, Bagbazar	8	...	...	..	7	4	6	6	1
„ „ „ Barrackpur	1	...	1	...	...	..		...	
Wood's Academy ..	6	1	1	...	2	1	2	3	1
Zoroastrian School, Mhow ...	3	...	2	...	1	1	...	1	...
Total ...	2937	210	704	495	1124	672	604	870	55

FIRST EXAMINATION IN ARTS, 1881.

Comparative Table shewing the number of Candidates sent up from each Institution, the number passed, and the number failing to obtain the minimum marks allotted to each separate subject.

Names of Institutions.	Number of Candidates.	Passed in			Failed in							
		First Division.	Second Division.	Third Division.	English.	Second Language.	History.	Mathematics.	Logic.	Chemistry.	Psychology.	Absent.
Agra College ...	11	1	4	1	2	..	2	5	1	...	...	...
Benares College ...	15		2	5	5	1	4	6	6	..	..	2
Berhampur College ...	12	1	..	2	6	7	6	4	4	..	...	...
Bethune School ...	1	..	1	.	...	...	..	..	...	..	...	..
Canning College, Lucknow ...	28	2	6	6	6	5	3	8	6	...	...	...
Chittagong College ...	9	..	1	2	5	2	3	3	4	...	...	...
Dacca College ...	88	8	14	21	37	22	22	21	12	..	.	...
Doveton College ...	11	1		3	3	3	1	6	1	...	...	1
Free Church Institution, Calcutta	72	1	6	12	38	30	9	39	27	..	...	4
General Assembly's Institution...	189	1	11	32	97	87	52	84	63	...	...	8
Hugli College ...	52	4	8	15	16	13	10	10	5	...	...	...
Jabalpur College ...	17	.	6	4	2	3	1	3	2	...	...	...
Krishnagar College ...	22	1	2	6	9	7	7	10	7	...	...	...
Lahore College ...	10	1	6	1	1	..	.	1	1	..	..	..
L. M. School, Benares ...	7	...	1	1	1	3	1	2	3	...	...	...
L. M. S. Institution, Bhowanipur	20	...	3	6	7	7	3	7	7	..	..	...
Metropolitan Institution ..	115	3	13	15	61	46	27	61	39	...	...	3
Midnapur College ...	6	...	1	3	1	1	...	...	...	...	..	..
Maharaja's College, Jeypur, ...	7	...	...	1	6	3	4	5	2	...	..	...
Maharaja's College, Patiala, ..	2	..	...	..	2	...	1	2	1	...	...	...
Muir Central College, Allahabad	10	1	5	1	1	2	1	3	...	...	...	...
M. A. O. College, Aligarh ...	8	...	4	1	2	1	2	2	..	...	...	..
Patna College ...	58	5	8	12	25	16	12	17	14	1	...	4
Presidency College ...	77	14	13	4	31	29	15	32	21	...	..	2
Rajshaye College ...	24	...	6	4	10	6	6	11	6	...	...	...
Rangoon High School ...	1	1	...	...	...	...	...	...	..	...		...
Ravenshaw College, Katak ...	8	2	2	1	2	...	..	2	.	...	..	...
Sanskrit College ...	21	..	3	7	10	4	6	6	4	...		...
Serampur College ...	9	.	3	2	2	...	1	2	2	...	..	1
St John's College, Agra ...	3	...	1	.	1	...	...	1	..	...	..	..
St. Thomas' College, Colombo ...	4	...	1	1	.	.	..	2	...	...	.	...
St. Xavier's College ...	12	1	3	...	7	5	5	6	6	..	...	..
Trinity College, Kandy ...	2	...	...	..	2	2	1	2	..	.	...	...
Teachers ...	37	..	6	7	19	15	7	18	11		..	3
Total ...	968	48	140	176	417	320	212	381	255	1	...	28

B. A. EXAMINATION, 1882.

A. COURSE.

Names of Institutions.	Number of Candidates.	Passed in the			Failed in						Aggregate.	Absent.
		First Division.	Second Division.	Third Division.	English.	Mathematics.	Second Language.	History.	Philosophy.	Optional Mathematics.		
Agra College ...	4	..	...		3	3	3	...	...	1	...	..
Bishop's College ...	1	...	1		...	..	...	.	..	..	..	...
Benares College ...	1	...	...	..	..	1	...	...	..	...	..	...
Canning College ...	1	. .	...	..	1	1	.	...	...	...		..
Dacca College ...	7	...	2	..	4	2	...	...	1	...	...	...
Free Church Institution ...	8	...	...	2	4	6	2	...	1	...		..
General Assembly's Institution ..	71	1	5	11	21	43	11	2	6	7	...	4
Hugli College ...	2	...	...	1			1	...	...	...	...	...
Krishnaghar College ...	3	...	...	...	...	2	..	...	...	...	..	1
Lahore College ...	3	...	1	1	1	1	1	1	...	.	.	...
Metropolitan Institution ...	34	1	1	2	20	24	7	4	5	1	...	1
Patna College ...	1	...	...	...	..	1	1	...		...	...	..
Presidency College ...	42	3	6	4	10	27	8	4	4	2	...	...
St. Xavier's College ...	3		...	...	1	3	.	..	...	...	.	...
Teachers ...	13	...	.	2	9	8	4	1	2	..		1
Total ...	194	5	16	23	74	122	38	12	19	11		7

B. COURSE.

Names of Institutions.	Number of Candidates.	Passed in the			Failed in								Aggregate.	Absent.
		First Division.	Second Division.	Third Division.	English.	Mathematics.	Chemistry.	Physical Geography.	Physics	Zoology.	Botany.	Geology.		
Agra College ..	1	...	..	...		1	...	..	...		.	..	...	...
Benares College ...	6	...	..	..	3	4	1	1	6	...	..	...	.	...
Canning College, Lucknow	10	2	.	1	5	4	2	3	6	...	.	...	..	1
Dacca College ...	9	1	2	2	..	3	2	.	3	1	...	...		..
Free Church Institution ...	3	...	1	...	1	..	..		1	...	...	..	...	...
General Assembly's Institution ..	11	...	1	3	3	6	1	..	3	1	...	..	..	..
Hughli College ...	20	4	7	1	3	7	2	...	..		2	...	..	..
Krishnaghar College ...	7	...	1		3	1	..	...	6	..	...	...	..	...
Lahore College ..	1	..		...	.	1		..	...	...	...	...	...	...
Metropolitan Institution	8	2	.	1	4	3	...	1	4	.	..	.	...	..
Muir Central College ...	15	1	1	3	8	5	2	..	6		.	...	.	2
Patna College ...	17	1	5		8	6	4	1	5	..	..	...	...	...
Presidency College ...	33	3	9	3	11	9	2	3	11	..	1		..	1
Rajshaye College ...	6	..	3	..	3	1	...	...	...	...	..	...		..
Ravenshaw College ..	1		1	..	...		..	...	...	..	..	...	...	...
St. Xavier's College ...	4	...	...		3	1	1	..	2	..	..	...	.	..
Teachers ...	12	..	2		4	10	2	2	6	..	1	1	..	...
Total ..	164	14	33	14	59	62	19	11	59	2	4	1	...	4

MINUTES

OF

THE FACULTY OF ENGINEERING

FOR THE YEAR 1881-82.

No. 4.

THE 23RD JANUARY.

Present

H LEVINGE, ESQ., *President in the Chair.*

H. B. MEDIICOTT, ESQ
A W. CROFT, ESQ
J SLATER, ESQ
BABU RADHIKAPRASAD MUKERJEE.

112. The Registrar submitted the Regulations for the First Examination in Engineering, the Licence in Civil Engineering, the Licence in Mechanical Engineering, the degree of Bachelor in Civil Engineering and of Bachelor in Mechanical Engineering, which he had drafted in consultation with Mr. J. Slater.

RESOLVED—

That the Faculty recommend to the Syndicate that the following regulations be substituted for the present regulations for the Licence in Civil Engineering and the degree of Bachelor in Civil Engineering.

FIRST EXAMINATION IN ENGINEERING.

1. The First Examination in Engineering shall be held every year in Calcutta, and shall commence at such time as the Syndicate may determine, the date to be approximately notified in the Calendar for the year.

2. Any undergraduate of the University may be admitted to this Examination, provided he has prosecuted a regular course of study in a School of Engineering affiliated to the University, for two years and six months after passing the Entrance Examination.

3. Every candidate for Admission to the Examination shall send his application, with a certificate in the form entered in Appendix A, to the Registrar, at least fourteen days before the date fixed for the commencement of the Examination.

4. A fee of twenty rupees shall be payable by each candidate. No candidate shall be admitted unless he has paid this fee to the Registrar. A candidate who fails to appear or to present himself for Examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to one or more subsequent Examinations on payment of a like fee of twenty rupees on each occasion.

5. Every candidate shall be examined in the following subjects :—

I. Mathematics.
II. Natural Science.
III. Engineering Construction.
IV. Geodesy.
V. Drawing.

I. MATHEMATICS.

Arithmetic. The whole.

Algebra.

To the Binomial Theorem (omitting scales of notation) Exponential Theorem and Logarithms.

Geometry.

Euclid—Books 1, 2, 3, 4 and 6, with deductions, Conic Sections treated geometrically.

Trigonometry.

As far as the solution of all cases of plane triangles. DeMoivre's Theorem, Exponential values of Sine and Cosine.

Mensuration.

Mensuration of surfaces and solids.

Analytical Geometry.

Equations of the straight line, circle, ellipse, hyperbola, and parabola, without reference to the general equation of the 2nd degree.

Statics.

Parallelogram and triangle of forces, Resultant of parallel forces, Couples, Moments, Equilibrium of any forces acting on a particle or rigid body, Centre of parallel forces, Centre of gravity, Friction, Simple cases of tension of Strings, Levers, Pulleys, Wheel and axle, Inclined plane, Screw.

Dynamics.

Definition and measurement of mass, force, velocity, acceleration, momentum, work and energy.* Laws of motion, Uniform motion, Uniformly accelerated motion in a straight line, parabola and circle. Relative motion. Simple cases of Impact

II. Natural Science.

Chemistry.

Inorganic Chemistry, The metals and non-metals.

Physics.

Light, Heat, Electricity, Magnetism and the elements of Telegraphy.

III. Engineering Construction.

Materials. Structure, Classification, and characteristic qualities of Building Stones, Artificial Stones, Quarrying and Blasting, Preparation of Bricks and Tiles, Cementing materials, Plasters, Paints and Varnishes, Properties and preservation of timber, Iron and Steel, Lead, Copper, Zinc and the common Alloys.

IV. Geodesy.

Use of the scales, Prismatic Compass, Pocket Sextant, Level, Theodolite and Plane table. Topographical Surveying of limited areas. Practice of Levelling. Route surveying and laying out curves. (Attested surveys, executed by the candidate, will be submitted to the Examiner, to which marks will be assigned.)

V. Drawing.

1. Free-hand Drawing
2. Projection (a) Orthographic (b) Isometric (c) Perspective.

6. The Examination shall be conducted by means of printed papers, and a paper of questions shall be set in each of the following subjects :

Arithmetic and Algebra.
Plane Geometry and Geometrical Conic Sections.
Trigonometry and Mensuration.

* Special importance will be attached to a thorough comprehension of the principles of Work and Energy, and of their application to the solution of Mechanical questions.

Statics and Dynamics.
Analytical Geometry.
Chemistry.
Light and Heat.
Electricity, Magnetism, and the elements of Telegraphy.
Materials of Construction.
Geodesy.
Drawing.

7. As soon as possible after the Examination, the Syndicate shall publish a list of the successful candidates arranged in two divisions, each in order of merit. Every candidate, shall, on passing, receive a certificate in the form entered in Appendix A.

LICENCE IN CIVIL ENGINEERING.

1. An Examination for a Licence* in Civil Engineering shall be held annually in Calcutta, and shall commence at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

2. Any undergraduate of the University may be admitted to this Examination on producing a certificate from the head of an institution affiliated to the University in Engineering, shewing that he has prosecuted a regular course of study for not less than one Academical year after passing the First Examination in Engineering.

3. Every candidate for admission to the Examination shall send his application, with a certificate in the form entered in Appendix A, to the Registrar at least fourteen days before the date fixed for the commencement of the Examination.

4. A fee of twenty-five rupees shall be payable by each candidate. No candidate shall be admitted unless he has paid this fee to the Registrar. A candidate who fails to pass or to present himself for Examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to one or more subsequent examinations on payment of a like fee of twenty-five rupees on each occasion.

5. Every candidate shall be examined in the following subjects :—

I. Mathematics.
II. Natural Science.
III. Engineering Construction.
IV. Drawing.

* The holder of this Licence shall be styled a Licentiate in Civil Engineering.

I. Mathematics.

Differential Calculus.

Differential coefficients of simple and complex functions, successive differentiation, Differential functions of two variables, functions of functions; Implicit functions. Taylor's and Maclaurin's Theorems. Maxima and Minima, values of functions of one variable.

Integral Calculus.

Integration of simple functions, Rational fractions. Formulæ of reduction. Lengths of curves. Areas of curves and surfaces. Volumes of solids. Differentiation of an Integral.

Hydrostatics.

Equilibrium of fluids, Specific gravity, Equilibrium of floating bodies, Centre of pressure, Elastic fluids, Principles of Barometer, and application to determine heights of Mountains; of the air-pump, Condenser-pump, Siphon, Hydrostatic Press and the Hygrometers.

II. Natural Science.

Geology. Excluding Palæontology and the Stratigraphical classification based thereon, and with special reference to the practice of mining.

Mineralogy. The form of minerals. The physical, optical, and chemical character of minerals. The distribution of minerals. Paragenesis.

Metallurgy. The metallurgy of Iron, Steel, Tin, Copper, Zinc, Lead, Mercury, Silver, and Gold

III. Engineering Construction.

Practice of Building. Brick and stone masonry, Earthwork, Carpentry, Foundations, Walls, Floors and roofs of Buildings, Construction of masonry, Wooden and iron bridges, Construction and maintenance of Roads, Construction of Railroads and Railway appliances.

Hydraulic Engineering. Canal and River Engineering, River training and improvements, Flow of liquids through orifices, Flow of liquids in pipes. The movements of water in Canals and Rivers, Flow of water over weirs and waste weirs, Afflux of fluids caused by obstructions, Water-wheels and Turbines, Storage of water, Supply of water to towns.

Applied Mechanics. Direct stresses, Bars and pillars of various forms in tension and compression, Transverse strain, Deflection of Beams, Resistance to torsion, The equilibrium, stability and strength of Framed Structures, Stability of suspension bridges, Theory of Earth pressure, and Resistance of Block work Structures. Elements of Graphic Statics.

Mechanism. Elementary forms of Machines, Levers, Cranks, Rolling Contacts, Sliding Contacts, Mechanism for modifying motion, Accumulation and Regulation of Motion.

Steam-Engine Measurement of Heat, Joule's Equivalent, Indicators and Indicator diagrams, Boilers, Heating surface, injectors and all other parts of high and low pressure Engines.

IV. Drawing.

Engineering and Architectural Drawing.

6. Candidates may also present themselves for Examination in one or more of the following optional subjects,

proficiency in which will affect their place in the division list, but will not be counted towards a pass.

I. Mathematics.

Pure Mathematics.
Mixed Mathematics. } *As in the First Examination in Engineering.*

II. Natural Science.

Chemistry.
Physics. } *As in the First Examination in Engineering.*

III. Engineering Construction.

Materials of Construction. *As in the First Examination in Engineering.*

IV.

Geodesy *As in the First Examination in Engineering.*
Practical Astronomy.

7. The Examination shall be conducted by means of printed papers, and a paper of questions shall be set in each of the following subjects :—

Obligatory.

Differential and Integral Calculus.
Hydrostatics.
Geology.
Mineralogy and Metallurgy.
Details of Construction.
Roads and Railways.
Hydraulic Engineering.
Applied Mechanics.
Mechanism and Steam-Engine.
Engineering and Architectural Drawing.

Optional.

Pure Mathematics.
Mixed Mathematics.
Chemistry.
Physics.
Materials of Construction.
Surveying and Practical Astronomy.

8. As soon as possible after the Examination, the Syndicate shall publish a list of the successful candidates arranged in two divisions, each in order of merit. Every candidate shall, on passing, receive a certificate in the form entered in Appendix A.

LICENCE IN MECHANICAL ENGINEERING.

1. An Examination for a Licence in Mechanical Engineering shall be held annually in Calcutta, and shall commence at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

2. Any undergraduate of the University may be admitted to this Examination on producing a certificate from the head of an institution affiliated to the University in Engineering, shewing that he has prosecuted a regular course of study for at least one Academical year after passing the First Examination in Engineering.

3. Every candidate for admission to the Examination shall send his application, with a certificate in the form entered in Appendix A, to the Registrar, at least fourteen days before the date fixed for the commencement of the Examination.

4. A fee of twenty-five rupees shall be payable by each candidate. No candidate shall be admitted unless he have paid this fee to the Registrar. A candidate who fails to appear or to present himself for Examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to one or more subsequent Examinations on payment of a like fee of twenty-five rupees on each occasion.

5. Every candidate shall be examined in the following subjects :—

I. Mathematics.
II. Engineering Construction.
III. Machinery.
IV. Drawing.

I. Mathematics.

As laid down for the Examination for the Licence in Civil Engineering.

II. Engineering Construction.

Practice of Building. As laid down for the Examination for the Licence in Civil Engineering,

Applied Mechanics. As laid down for the Examination for the Licence in Civil Engineering.

Steam-Engine. The Steam-Engine as viewed under a knowledge of the doctrine of Latent Heat, with history of improvements and alterations in original theories, Combustion of fuel, Heat Engines. The conversion of Motion, Indicators and details of Construction, Boilers, Compound Cylinder Engines, Miscellaneous details.

Hydraulic Engineering. Hydraulic Machinery, Flow of water in pipes.

III. Machinery.

Mechanism and Machine design. Elementary forms of Machines, Levers, Cranks, Rolling Contacts, Sliding Contacts, Mechanism for modifying motion, Accumulation and Regulation of Motion. Mode of designing Riveted Joints, Fastenings, Journals, Pivots, Axles, Shaftings, Bearings, Strength and form of toothed gearing, Belt and rope gearing, Link-work, Pistons, Stuffing boxes, Valves and Cocks.

Workshop Appliances. Measures of length and methods of measuring. Hand tools for wood and metals, Forming straight edges and surface plates. Foot and power Lathe, Machinery for drilling, Boring, Planing, Shaping, Slotting, Punching, Shearing and Sawing. Distribution of motive power to Machine tools.

Designs. Designs of Factories and Workshops with arrangement of Machinery.

IV. Drawing.

Machine Drawing.

6. Candidates shall also be allowed to present themselves for Examination in one or more of the following optional Subjects, proficiency in which will affect their place in the division list, but will not be counted towards a pass.

Optional Subjects.

I. Mathematics.
Pure Mathematics } *as in the First Examination in Engineering.*
Mixed Mathematics }

II. Natural Science.
Chemistry } *as in the First Examination in Engineering.*
Physics }

III. Engineering Construction.
Materials of Construction *as in the First Examination in Engineering.*

IV. Geodesy *as in the First Examination in Engineering.*

7. The Examination shall be conducted by means of printed papers, and a paper of questions shall be set in each of the following subjects:

Obligatory.

Differential and Integral Calculus.
Hydrostatics.
Details of Construction.
Roads and Railways.
Applied Mechanics.
Hydraulic Engineering and
Mechanism and Machine design.
Designs, and Workshop appliances.
The Steam-Engine.
Machine Drawing.

Optional.

Pure Mathematics.
Mixed Mathematics.
Chemistry.
Physics.
Materials of Construction.
Surveying and Practical Astronomy.

8. As soon as possible after the Examination, the Syndicate shall publish a list of the successful candidates arranged in two divisions, each in order of merit. Every candidate shall on passing receive a certificate in the form entered in Appendix A.

BACHELOR IN CIVIL ENGINEERING.

1. An Examination for the Degree of Bachelor in Civil Engineering shall be held annually in Calcutta, and shall commence at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

2. Any candidate who has passed the First Examination in Arts* may be admitted to this Examination, provided he produces a certificate from the head of an Institution affiliated in Engineering, shewing that he has prosecuted a regular course of study for not less than one Academical year, after passing the First Examination in Engineering.

3. Every candidate for admission to the Examination shall send his application, with a certificate in the form entered in Appendix A, to the Registrar, at least fourteen days before the date fixed for the commencement of the Examination.

4. A fee of thirty rupees shall be payable by each candidate. No candidate shall be admitted, unless he has paid this fee to the Registrar. A candidate who fails to pass or present himself for Examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to one or more subsequent Examinations on payment of a like fee of thirty rupees on each occasion.

5. Every candidate shall be examined in the subjects and in the manner ordered in paras. 5, 6 and 7 of the Regulations for a Licence in Civil Engineering.

6. As soon as possible after the Examination, the Syndicate shall publish a list of the successful candidates arranged in two divisions, each in order of merit. Every candidate shall, on passing, receive a certificate in the form entered in Appendix A.

* Any under-graduate who has passed the First Examination in Engineering may proceed to the First Examination in Arts and the Bachelor of Arts Examination, without completing the two years of study at an affiliated Institution required under para. 2 of the First Arts and B. A. Regulations.

7. The first candidate of the first division shall receive a gold medal to the value of one hundred rupees.

8. Any Licentiate in Civil Engineering, who has passed the First Examination in Arts, may, on paying the usual fee, be admitted to the Degree of Bachelor in Civil Engineering without further Examination.

BACHELOR IN MECHANICAL ENGINEERING.

1. An Examination for the degree of Bachelor in Mechanical Engineering shall be held annually in Calcutta, and shall commence at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

2. Any candidate, who has passed the First Examination in Arts,* may be admitted to the Examination, provided he produces a certificate from the head of an Institution affiliated to the University in Engineering, shewing that he has prosecuted a regular course of study for not less than one Academical year after passing the First Examination in Engineering.

3. Every candidate for admission to the Examination shall send his application with a certificate in the form entered in Appendix A, to the Registrar, at least fourteen days before the date fixed for the commencement of the Examination.

4. A fee of thirty rupees shall be payable by each candidate. No candidate shall be admitted unless he has paid this fee to the Registrar. A candidate, who fails to pass or to present himself for Examination, shall not be entitled to claim a refund of the fee. A candidate may be admitted to one or more subsequent Examinations on payment of a like fee of thirty rupees on each occasion.

5. Every candidate shall be examined in the subjects and in the manner ordered in paras. 5, 6 and 7 of the Regulations for a Licence in Mechanical Engineering.

6. As soon as possible after the Examination the Syndicate shall publish a list of the successful candidates, arranged in two divisions, each in order of merit. Every

* Any under-graduate who has passed the First Examination in Engineering may proceed to the First Examination in Arts and the Bachelor of Arts Examination, without completing the two years of study at an affiliated Institution required under para. 2 of the First Arts and B. A. Regulations.

candidate shall, on passing, receive a certificate in the form entered in Appendix A.

7. The first candidate of the first division shall receive a gold medal to the value of one hundred rupees.

8. Any Licentiate in Mechanical Engineering who has passed the First Examination in Arts, may, on paying the usual fee, be admitted to the degree of Bachelor in Mechanical Engineering without further Examination.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
H. C. LEVINGE,
President.

MINUTES

OF

THE FACULTY OF LAW

FOR THE YEAR 1881-82.

No. 2.

THE 27TH JANUARY.

Present:

W. C. BONNERJEE, ESQ., *President in the Chair.*

RAI JAGADANANDA MUKERJEA, BAHADUR
H. BELL, ESQ.
ARTHUR PHILLIPS, ESQ.
BABU SYAMACHARAN SARKAR
THE HON'BLE RAMESH CHUNDER MITTER.
BABU MOHINIMOHAN ROY
BABU TRAILOKYANATH MITRA, D. L.
BABU GURUDAS BANERJEA, D. L.
BABU HEMCHANDRA BANERJEA.
MAULAVI MUHAMMAD YOUSUF.

113. The Faculty met to consider and report on the applications of candidates for the Tagore Law Professorship.

RESOLVED—

That the Faculty recommend to the Syndicate that Professor Jolly be appointed Tagore Professor of Law for the term of one year from the 1st of September 1882 and that the subject of his lectures be "The Hindu Law of Inheritance, Partition and adoption according to the Smritis."

CHARLES TAWNEY,
Registrar.

(Confirmed.)
W. C. BONNERJEE,
President.

MINUTES

OF

THE FACULTY OF ARTS

FOR THE YEAR 1881-82.

No. 1.

THE 28TH JANUARY.

Present:

THE HON'BLE MAHARAJA JOTENDRO MOHAN TAGORE BAHADUR, C. S. I., *President in the Chair.*

REV. K. M. BANERJEA, D. L.
BABU PRASANNAKUMAR SHARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
MAJOR H. S. JARRETT.
NAWAB ASHGAR ALI KHAN BAHADUR, DILAR JUNG, C. S. I.
JOHN ELIOT, ESQ.
BABU KALICHARAN BANERJEE.
REV. JAMES ROBERTSON.
REV. A. F RUDOLF HOERNLE, PH. D.
REV. W. HASTIE, B. D.
A. M. NASH, ESQ.
F. J. BIDEN, ESQ.
BABU KRISHNABIHARI SEN.
REV. K. S. MACDONALD.
JAMES WILSON, ESQ.

114. The Faculty met by request of the Syndicate to appoint Boards of Studies to advise the Syndicate with regard to the selection of text-books for the various Arts Examinations.

RESOLVED—

That the following Boards of Studies be appointed.

LANGUAGES.

Section 1. *English and European classics.*

A. W. Croft, Esq., M. A.
The Hon'ble H. J. Reynolds, B. A., C. S.
A. W. Garrett, Esq., B A
Rev. James Robertson, M. A.
F. J. Rowe, Esq , M. A.
Rev. W. Hastie. B. D.
Babu Gobind Chunder Dutt.
W. T. Webb, Esq., M. A.
J. Wilson, Esq.

Section 2. *Sanskrit and Sanskritic Languages.*

Rev. K. M. Banerjea, D. L.
Rai Rajendralala Mitra Bahadur, D. L., C. I. E.
Babu Prasannakumar Sarbádhikarí.
Pandit Mahesachandra Nyáyaratna, C. I. E.
Dr. Saurindramohan Tagore.
Rev. A. F. Rudolf Hoernle, Ph. D.

Section 3. *Arabic, Persian and Urdu.*

Nawáb Abdul Latif Khan Bahadur.
Major H. S. Jarrett.
Maulavi Kabiruddin Ahmed.
The Hon'ble J. O'Kinealy, M. A., C. S.
Rev. A F. Rudolf Hoernle, Ph. D.
Captain A C Talbot, B. S. C.
Maulavi Muhammad Yousuf, B. L.

MATHEMATICS.

Rev. J. P. Ashton, M. A.
A. W. Croft, Esq., M A.
The Hon'ble J. O'Kinealy, M. A., C. S.
J. Eliot, Esq , M A.
The Hon'ble D. M. Barbour, C. S.
Babu Gurudas Banerjea, D. L.
Ananda Mohun Bose, Esq., M. A.
A. M. Nash, Esq., M. A.
F. J. Biden, Esq., M. A.

SCIENCE, NATURAL AND PHYSICAL.

H. F. Blanford, Esq.
Babu Mahendralal Sarkar, M. D.
H. B. Medlicott, Esq.
J. Eliot, Esq , M. A.
Rev. Father Lafont, Sj., C. I. E.
A. Pedler, Esq , F. C. S.
W. T. Blanford, Esq., F. R. S., F. G. S.
A. M. Nash, Esq., M. A.

History.

The Hon'ble W W. Hunter, LL. D., C. I. E.
The Hon'ble H. J. Reynolds, B. A., C. S.
Rev. James Robertson, M. A.
Rev. W. Hastie, B. D.
A. W Garrett, Esq., B. A.
F. J. Rowe, Esq., M. A.
W T. Webb Esq., M. A.
Babu Govind Chunder Dutt.

Philosophy.

Rev. K. M. Banerjea, D. L.
A. W. Croft, Esq., M. A
Babu Kalicharan Banerjea, M. A.
Rev. James Robertson, M. A.
Rev. A. F. Rudolf Hoernle, Ph. D.
Rev. W. Hastie, B D.
Babu Krishnabihari Sen, M. A.
Rev. K. S. Macdonald, M. A.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
JOTEENDRO MOHAN TAGORE,
President.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 13.

THE 11TH FEBRUARY.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE REV. K. M. BANERJEA, D. L
BABU PRASANNAKUMAR SARBADHIKARI.
REV J. P ASHTON.
CHARLES H. TAWNEY, ESQ.
THE HON'BLE RAJA SIVA PRASAD, C S. I.
K DEIGHTON, ESQ.
RAI KANAILAL, DE BAHADUR.
A. W. CROFT, ESQ
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
DR. K MCLEOD.
THE HON'BLE H. J REYNOLDS.
H. B. MEDLICOTT, ESQ.
DR. H. CAYLEY.
A. W. GARRETT, ESQ.
JOHN ELIOT, ESQ.
REV. FATHER E. LAFONT, SJ., C. I. E.
A. M. BOSE, ESQ.
BABU KALICHARAN BANERJEE.
W. C. BONNERJEE, ESQ.
REV JAS. ROBERTSON.
A. PEDLER, ESQ.
BABU GOOROODASS BANERJEE, D. L.
REV. W. HASTIE, B. D.
F J. BIDEN, ESQ.
BABU SURYYAKUMAR SARBADHIKARI.
DR. R. HARVEY.
A M NASH, ESQ.
BABU GOVINCHUNDER DUTT.
SYUD MAHMUD, ESQ
BABU KRISHNABIHARI SEN.
REV. K. S MACDONALD.
W. T. WEBB, ESQ.
J. WILSON, ESQ.
BABU RADHIKAPRASAD MUKERJEE.
BABU LALMADHAB MUKERJEE.

115. Read a letter from the Hon'ble H. J. Reynolds and Messrs. H. B. Medlicott, Jas. Robertson and A. W. Croft referring to certain incongruities in the Regulations for the B. A., B. Sc. and M. A. Examinations adopted at the meeting of the Senate held on the 19th of November 1881.

The Hon'ble H. J. Reynolds moved that the following alterations be made in the above regulations.

That the following words be omitted :—

"BACHELOR OF SCIENCE.

"The degree of Bachelor of Science may be conferred upon those persons who shall pass the Examination prescribed for that degree upon the terms contained in the following regulations."

That the Regulations immediately following be entitled "Bachelor of Arts" instead of "Bachelor of Arts and Bachelor of Science."

That in para. 1 of the Regulations to be entitled "Bachelor of Arts," for the words "the Examinations for these degrees" the words "An Examination for the degree of Bachelor of Arts" be substituted and that the words "No candidate shall be allowed to present himself for both degrees, and no one who holds one of these degrees shall be admitted to the Examination for the other" be omitted.

That in para. 2 of these Regulations, the words "the Examination" be substituted for the words "Either Examination."

That in para. 5 of these Regulations the words "the Examination" be substituted for the words "either Examination" and the words "the degree of Bachelor of Arts" be substituted for the words "either degree."

That in para. 6 the words "Examination for the degree of Bachelor of Arts" be substituted for the words "Examination for both degrees."

That in para. 7 the words "for each degree" be omitted after the word "passed" and that the words "At the Examination for the degree of Bachelor of Arts every candidate shall be examined in one or other of the two following Courses marked A. and B.," be substituted for the words "The Course for the B. A. degree shall be as follows."

That the Course immediately following be headed A, and that the words "The Course for the B. Sc. degree shall be as follows" be omitted, and that the Course immediately following them be headed B, and that throughout these Regulations the Course now referred to as "the B. Sc. Course" be henceforth referred to as "the B. Course."

That in para. 2 of the Regulations for the Examination for the degree of M. A. the words "or B. Sc." be omitted.

Mr. H. B. Medlicott seconded the motion which was carried.

116. Dr. H. Cayley moved—

That the following words be added to clause (*a*) of the second para. of the Regulations for the degree of Bachelor of Medicine and to clause (*a*) of the fifteenth para. of the same Regulations,

"Or of having obtained the degree of Bachelor of Arts" and that the footnote now appended to clause (*a*) of both these paragraphs, *viz.*, "The words here printed in italics are to take effect as soon after 1869 as the Syndicate may order" be omitted.

Dr. K. McLeod seconded the motion which was put to the vote and lost.

117. Dr. H. Cayley then moved—

That in para. 15 of the Regulations for the degree of Bachelor in Medicine the word "two" be substituted for the word "three."

Dr. K. McLeod seconded the motion which was carried.

118. Read a letter from C. S. Bayley, Esq., officiating Secretary to the Government of Bengal forwarding for the information of the Senate copy of correspondence relating to the establishment in Calcutta of Examinations for the degrees of the London University.

RESOLVED—

That the correspondence be recorded.

CHARLES H. TAWNEY,
Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 7.

THE 25TH FEBRUARY.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE HON'BLE MAHARAJA JOTENDRA-MOHAN TAGORE BAHADUR, C. S. I.
THE HON'BLE H. J. REYNOLDS.
A. W. CROFT, ESQ
W. C. BONNERJEE, ESQ.

119. The Registrar submitted a set of draft rules for the conduct of the Premchand Roychand Examinations, based upon the recommendations made by Messrs. Eliot and Pedler in the following letter addressed by them to the Registrar, and read at the previous meeting of the Syndicate.

To

CHARLES H. TAWNEY, ESQ., M. A.,
Registrar of the Calcutta University.
Dated, 4 Middleton Row, December, 1881.

SIR,

We have the honor to ask you to direct the attention of the Syndicate to the unsatisfactory character of the Examinations for the Premchand Studentships, and to submit certain proposed changes for their consideration.

The Examination is in some respects the most important conducted by the University. It is the only one which directly and immediately confers a valuable pecuniary reward on the successful Candidate. It is moreover evidently intended to encourage distinguished ability and scholarship in the more important branches of knowledge included in the Arts Courses of the University. It is therefore very desirable that the Examination should be so conducted as to result in the selection of the ablest Candidate, and also to give equal chances to Candidates of different forms of culture.

According to the arrangements in force at present, each Candidate is allowed to select a number of subjects not exceeding five from a wide range stated fully in the Calendar. One Examiner is appointed for each subject. Each Examiner sets questions, examines the answers and assigns marks without any reference to, or consultation with, the other Examiners.

Hence there is no common uniformity of standard throughout the Examination. Neither is there any general consensus of opinion of the Examiners as to the merits of the Candidate who attains the highest number of marks and therefore the Studentship. And unless one of the Candidates is very much superior intellectually to the others, success may evidently be, and is, we believe, occasionally due as much to the leniency of one or more of the Examiners as compared with the rest, as to the Candidate's superior abilities or attainments. It is also evident that the literary subjects are better adapted to native students, who trust generally to memory in preparation for Examinations. That there is some want of uniformity in the examinations is, we think, shewn by the fact that out of the 14 holders of the Premchand Studentships up to the present time, 10 took their M. A. Degree with Honors in Literary subjects, 4 in Mathematics and not one in either the Physical or Natural Sciences.

It is, we feel convinced, not necessary to dwell at length upon the minor defects of the Examinations as at present conducted, such as for example the fact that to Problem papers in Mathematics are assigned the same total number of marks as to Book work papers, and that they are subject to the same limitations in order to enable the marks obtained to count towards the total.

The following are the major changes that we venture to propose :—

1st. That there should be a yearly Examination as at present, but that it should be alternately an examination in Literary subjects and in Scientific subjects. That would recognize equally literary and scientific culture, and give students of the two classes equal chances of success. The Examination in literary subjects might comprise :—

1. The English Language : its Literature, History and development.

2. Not more than two of the following Languages with their Literature and History, &c. :—

Sanskrit.
Arabic, &c., &c.
Greek.
Latin, &c., &c.

3. Comparative Grammar and Philology.
4. Psychology.
5. History.

The Examination in Science should include—

1. Mathematics, Pure.
2. „ Mixed.
3. Chemistry, { Inorganic. Organic.
4. Physical Sciences including—

Electricity.
Heat and
Physical Optics.

5. Natural Science including—

Geology
Botany and
Zoology.

Also, if it be considered desirable to limit the period during which Candidates may present themselves after taking their M. A. Degree, (which we certainly think desirable), it might be extended from three years, as at present, to four years, so as to give Candidates of either training two chances of appearing at the Examination.

In order to secure, so far as possible, uniformity of standard of judgment throughout the Examination, and the selection of the ablest Candidate by the examining body *solely* on the whole merits of the Examination papers, we propose that three Examiners should be appointed each year to conduct the Examination.

That they should compare their Examination questions together, and that after each has examined the answers to his own papers, all the papers should be circulated to each Examiner for general inspection, and that finally they should meet and decide whom they think entitled by extent and quality of knowledge to the vacant studentship, and recommend him to the Syndicate for it.

It appears unnecessary for us to suggest the minor details of the Examinations, as, should the matter come before the Senate for discussion, they can then be settled.

We have the honor to be,
Sir,
Your most obedient Servants,
JOHN ELIOT,
ALEXANDER PEDLER,
Fellows of the University of Calcutta.

RESOLVED—

That the Syndicate recommend to the Senate that the following rules be substituted for those now in force for the conduct of the Premchand Roychand Examinations.

RULES FOR THE PREMCHAND ROYCHAND STUDENTSHIPS TO BE SUBSTITUTED FOR THOSE NOW IN FORCE.

(See Calendar for 1881-82, *p.* 100.*)*

1. Five studentships of Rs. 1,600 a year each, to be called the Premchand Roychand studentships, shall be maintained on the interest of the Endowment.

2. Any M. A. of the University of Calcutta shall be eligible for one of these studentships, during nine years from the time that he passed the Entrance Examination

3. Each studentship shall be tenable for five years, and one election shall be made annually after Examination, provided any one candidate be declared by the Examiners to be entitled to a Studentship.

4. The Studentships shall be awarded in alternate years for proficiency in Literary and Scientific subjects.

The Literary subjects shall be as follows :—

1. English.
2. Not more than two of the following languages to be selected by the Candidate.

Sanskrit.	Greek.
Arabic.	Latin.

3. Comparative Philology.
4. Philosophy.
5. History.

The Scientific subjects shall be as follows :—

1. Pure Mathematics.
2. Mixed Mathematics.
3. Chemistry, Inorganic and Organic.
4. Physical Science including—
   - Electricity and Magnetism.
   - Heat.
   - Physical Optics.
5. Natural Science including—
   - Geology.
   - Botany.
   - Zoology.

5. Candidates must give notice six months before the Examination of their intention to appear and must, at the time of giving such notice, state in writing the subjects they intend to take up, and pay a fee of Rs. 32 to the Registrar.

6. The Examiners shall meet together before the Examination in order to compare their questions, and after the Examination in order to draw up a report (to be printed in the University Minutes) declaring the name of the Candidate whom they consider entitled to the Studentship.

7. Should the Examiners in any year report, that no student has in their opinion shewn sufficient proficiency in the subjects of the year to entitle him to a Studentship, it shall be competent to the Syndicate to award the vacant Studentship for proficiency in those subjects in the following or any subsequent year.

8. The names of the Premchand Roychand students, past and present, shall be printed in the Calendar after the names of the Fellows.

120. Read a letter from Pandit Iśvarachandra Vidyáságara requesting that the Metropolitan Institution be affiliated to the University in Law.

RESOLVED—

That an application be made to the Government of India, requesting the Governor-General in Council to sanction the affiliation of the Metropolitan Institution in Law, with effect from the 1st of January 1882.

121. Read a letter from the Offg. Principal, Krishnaghar College, forwarding an application from Babu Tarinidas Banerjea, M. A. to be admitted to the B. L. Examination, together with correspondence noted in the margin.*

The Registrar stated that he had declined to admit Babu Tarinidas Banerjea to the last B. L. Examination, on the ground of an intimation from the Director of Public Instruction, Bengal, to the effect that he was dismissed from the service of Government for misconduct which shewed either complicity in an attempt to embezzle Government money, or gross and culpable negligence of the interests of Government committed to his charge.

* Letter from the Director of Public Instruction No. 8162, dated 29th November 1881 to the Principal Krishnaghar College. Endorsement No. 8163, dated 29th November 1881 from the Director of Public Instruction to Tarinidas Banerjea. Letter No 8204, dated 1st December 1881 from the Director of Public Instruction to the Registrar, Calcutta University. Letter from the Registrar, Calcutta University No. 1084, dated 2nd December 1881 to the Principal, Krishnaghar College. Endorsement from the Principal, Krishnaghar College No. 205, dated 5th December 1881 to Tarinidas Banerjea.

ORDERED—

That Babu Tarinidas Banerjea be excluded from the Examinations of the University.

122. Read a letter from Mr. E. Edward Geflowski suggesting the advisability of removing the bust of Sir Cecil Beadon from its present position, and of making a slight alteration in the pedestal.

RESOLVED—

That the matter stand over until the Syndicate have had an opportunity of examining the appearance of the bust in its present position.

123. Read the report of the Committee appointed to consider the desirability of making the Sanskrit Vyakarana Sanjivani a text-book for the Entrance Examination.

RESOLVED—

That it is not desirable to introduce the work into the Examinations of the University.

124. Read the report of the Committee appointed to consider the desirability of making the Purábritta Sár a text-book for the University Examinations in Hindi.

RESOLVED—

That it is not desirable to adopt the book as a text-book in Hindi.

125. Read the proceedings of the Faculty of Engineering at their meetings on the 20th of December and the 23rd of January.

RESOLVED—

That the consideration of the new Regulations in Engineering recommended by the Faculty be deferred until the next meeting.

126. Read the proceedings of the Faculty of Arts at their meeting on the 28th of January.

ORDERED—

To be recorded.

127. Read the proceedings of the Faculty of Law at their meeting on the 27th of January.

RESOLVED—

That a meeting of the Senate be held on the 25th of March to elect a Tagore Professor of Law, and that at this meeting the Syndicate recommend to the Senate that Pro-

fessor Jolly be appointed Tagore Professor of Law for the term of one year from the 1st of September 1882, and that the subject of his lectures be "The Hindu Law of Inheritance, Partition and Adoption, according to the Smṛitis."

128. Read the following report of the Senior Board of Examiners on the result of the B. A. Examination.

"We have the honor to submit for the approval of the Vice-Chancellor and Syndicate the result of the B. A. Examination.

"The number of Candidates registered for Examination in the A. Course was 194, of whom 5 passed in the First Division, 16 in the Second, and 23 in the Third; 7 were absent, and 143 failed.

"The number of Candidates registered for Examination in the B. Course was 164, of whom 14 passed in the First Division, 33 in the Second, and 14 in the Third; 4 were absent, and 99 failed.

"The Examination has been conducted in accordance with the instructions laid down for our guidance in our letter of appointment."

RESOLVED—

That the report be approved and that the names of the successful Candidates be published in the Gazette.

The following are the names of the successful Candinates:—

FIRST DIVISION.

In Order of Merit.

Majumdar, Ramchandra	...	Presidency College.
Basu, Bhupalchandra	...	Ditto.
Mukhopadhyay, Priyanath	...	Canning College.
" Jibanchandra	...	Muir Central College.
Chakrabarti, Bhupati	...	Presidency College.
Das, Radhagobinda	...	Ditto.
Jagannath Prasad	...	Patna College.
Bandyopadhyay, Rajendrachandra		Presidency College.
Mitra, Rasamay	...	Hughli College.
Ray, Jogeschandra	...	Ditto.
Ray, Manamohan	...	Presidency College
Sen, Bankimchandra	...	General Assembly's Institution.
Sarkar, Durgacharan	...	Metropolitan Institution.
Sen, Mohínimohan	...	Ditto.

Sanyal, Saratchandra	...	Canning College.
Palit, Dabendranath	...	Hughli College.
Chattopadhyay, Rajanikanta	...	Ditto.
Sen, Kshirodchandra	...	Dacca College.
Chakrabarti, Mohinimohan	...	Metropolitan Institution.

SECOND DIVISION.

In Alphabetical Order.

Atmaram	...	Patna College.
Baldeo Lal	...	Ditto.
Bandyopadhyay, Baninath	..	Ditto.
Banerjee, A. N.	...	Bishop's College.
Basu, Janakinath	...	Ravenshaw College.
„ Panibhushan	...	Presidency College.
„ Rajaninath	...	Teacher.
„ Saradacharan	...	Metropolitan Institution.
„ Saratchandra	...	General Assembly's Institution.
„ Upendranath	...	Presidency College.
Bhar, Nityananda	...	General Assembly's Institution.
Bhattacharyya, Akshaykumar	...	Hughli College
„ Ramsadan	...	General Assembly's Institution.
Chakrabarti, Harendranarayan	...	Rajshahye College.
„ Jnanendranath	...	Muir Central College.
„ Rajmohan	...	Dacca College.
„ Rasikchandra	...	Ditto.
Chattopadhyay, Kunjabihari	...	General Assembly's Institution.
„ Lakshmanchandra		Presidency College.
Chaudhuri, Umeschandra	...	Rajshahye College.
Das, Gaganchandra	...	Presidency College.
„ Taritamohan	...	Hughli College.
Datta, Jadabchandra	...	Presidency College.
De, Kunjabihari	...	Dacca College.
Dhar, Abinaschandra	...	General Assembly's Institution.
Gangopadhyay, Kshetramohan	...	Hughli College.
Ghosh, Panchanan	...	Ditto.
„ Srischandra	...	Presidency College.
Gupta, Kangalchandra	...	Hughli College.
„ Gobindagopal	...	General Assembly's Institution.
Haldar, Jogendranath	...	Presidency College.
Kandhji	...	Patna College.
Muhammad Shafi,	..	Lahore Government College.
Majumdar, Ambikacharan	...	Presidency College.
„ Bipinbihari	...	Teacher.
Mitra, Hemchandra	...	Krishnaghar College.
„ Srischandra	...	Rajshahye College.
Mukhopadhyay, Bhabacharan	...	Presidency College.
„ Brajalal	...	Ditto.
„ Debendranath	...	Ditto.
„ Krishnakali	...	Ditto.
Pal, Bhutnath	...	Free Church Institution.
Ray, Gobindachandra	...	Hughli College.

Sahay, Nilkantha	...	Patna College.
Sarbadhikari, Debaprasad	...	Presidency College.
Sen, Binodbihari	...	Ditto.
,, Biseswar	...	Dacca College.
,, Sasibhushan	...	Hughli College.
Set, Dhanballabh	...	Presidency College.

THIRD DIVISION.

In Alphabetical Order.

Adhikari, Krishnakisor	...	General Assembly's Institution.
Baksi, Saradaprasad	.	Metropolitan Institution.
Bandyopadhyay, Bansidhar	...	Presidency College.
,, Chandrabhushan		Muir Central College.
,, Debendranath	...	General Assembly's Institution.
Basak, Lalbihari	..	Ditto.
Basu, Akshaykumar	...	Ditto.
,, Bijaygobinda	...	Ditto.
,, Khagendranath	...	Presidency College.
,, Saratkisor	...	Dacca College.
,, Sasibhushan	...	Presidency College.
Biswas, Girischandra	...	Canning College.
Bhattacharyya, Kailaschandra	...	General Assembly's Institution.
Chattopadhyay, Abhaykumar	...	Dacca College.
,, Anukulchandra	...	Teacher.
Chaudhuri, Jogendralal	...	Hughli College.
Das, Harkrishna	...	Lahore Government College.
Datta, Madhabchandra	...	Presidency College.
Jyotirbeda, Pitambar	...	Muir Central College.
Konar, Sasibhushan	...	Free Church Institution.
Maiti, Upendranath	...	Ditto
Majumdar, Murarilal	...	General Assembly's Institution.
Misra, Harinarayan	...	Metropolitan Institution.
Mitra, Debendranath	...	General Assembly's Institution.
,, Kaliprasanna	...	Metropolitan Institution.
,, Sureschandra	...	General Assembly's Institution.
Mukhopadhyay, Jnanendranath	...	Presidency College.
,, Kalidas	...	General Assembly's Institution.
Raychaudhuri, Saratchandra	...	Ditto.
Sarkar, Nabagopal	...	Ditto.
Sen, Debendramohan	...	Ditto.
,, Paresnath	...	Ditto.
,, Rasiklal	...	Teacher.
Sinha, Kshetralal	...	Presidency College.
,, Ramchandra	...	Ditto.
,, Surendranath	...	Hughli College.
Thakur, Kasinath Kesab	...	Muir Central College.

On the result of the B. A. Examination the Eshan and Vizianagram Scholarships were awarded to Ramchandra Mazumdar of the Presidency College.

The Harischandra Prize was awarded to Priyanath Mukhopadhyay, of the Canning College.

The Radhakanta medal was awarded to Rajendrachandra Bandyopadhyay of the Presidency College.

The Herschel medal was awarded to Radhagobinda Das, of the Presidency College.

The Woodrow Scholarship was awarded to Kshirodchandra Sen, of the Dacca College.

129. Read the following report of the B. L. Examiners:

"We have the honor to submit for the approval of the Vice-Chancellor and Syndicate the result of the B. L. Examination.

"The number of Candidates registered for the Examination was 109, and we have passed 69. Of the successful Candidates 2 were placed in the First Division and 67 in the Second, and 38 failed, and 2 were absent.

RESOLVED—

That the report be approved and that the names of the successful Candidates be published in the Gazette.

The following are the names of the successful Candidates:—

FIRST DIVISION.

In Order of Merit.

1	Chattopadhyay, Digambar	...	Presidency College.
2	Sinha, Nirmalchandra	...	Ditto.

SECOND DIVISION.

In Order of Merit.

Haldar, Kisorilal	..	Hughli College.
Laha, Amarchand	..	Dacca College
Sen, Narendranath	..	Presidency College.
Datta, Narendrakrishna	..	Ditto.
Sarkar, Asutosh	..	Dacca College.
Chattopadhyay, Sureschandra	..	Presidency College.
Datta, Mohinimohan	..	Ditto.
Mitra, Bamkimchandra	..	Ditto.
Mitra, Nagendrachandra	..	Ditto.
Sinha, Purnendunarayan	..	Patna College.
Sen, Srinath	..	Presidency College.
Mitra, Abinaschandra	..	Ditto.
Datta, Taraknath	..	Ditto.
Mitra, Gopendrachandra	..	Hughli College.

Basu, Pulinbihari	..	Presidency College.
„ Debendrabijay	..	Ditto.
Awadh Kisor	..	Patna College.
Mukhopadhyay, Hariprasanna	..	Presidency College.
Ray, Kalimohan	..	Patna College.
Basu, Bijaygopal	..	Presidency College.
Nag, Abhayacharan	..	Ditto.
Taslimuddin Ahmad	..	Ditto.
Mandal, Rameswar	..	Ditto.
Sarkar, Nandalal	..	Ditto.
Chattopadhyay, Saratchandra	..	Ditto.
Bhattacharyya, Maheswar	..	Ditto.
Ray Chandranarayan	..	Krishnaghar College.
Bhattacharyya, Jugadas	..	Presidency College.
Datta, Upendranath	..	Ditto.
Chakrabarti, Dwarkanath	..	Ditto.
Das, Dhairyyanarayan	..	Ditto.
Bandyopadhyay, Bidhubhushan	..	Hughli College.
Sen, Annadacharan	..	Presidency College.
Mukhopadhyay, Chandrasekhar	..	Ditto.
„ Kaliprasanna	..	Patna College.
Sen, Jadabchandra	..	Dacca College.
Mirza, Muhammad Ismail	..	Patna College.
Bandyopadhyay, Mahadeb	..	Presidency College.
Hati, Banwarilal	..	Ditto.
Das, Kamalanath	..	Dacca College.
De, Ramapati	..	Presidency College.
Das, Taraprasanna	..	Dacca College.
Dan, Mahendranath	..	Presidency College.
Lahiri, Chandrakanta	..	Ditto.
Basu, Trailokyanath	..	Ditto.
Ray, Ugrakanta	..	Ditto.
Mukhopadhyay, Purnachandra	..	Muir Central College.
Ghosh, Jadunath	..	Presidency College.
Datta, Mohinimohan	..	Hughli College.
Mukhopadhyay, Krishnadhan	..	Ditto.
„ Asutosh	..	Ditto.
Ghosh, Atulchandra	..	Presidency College.
Bandyopadhyay, Kantibhusahn	..	Hughli College
Palit, Priyanath	..	Presidency College.
Chattopadhyay, Amritalal	..	Ditto.
Sen, Sasibhushan	..	Ditto.
Goswami, Jadunath	..	Ditto.
Pal, Saratchandra	..	Ditto.
Das, Rasikchandra	..	Ditto.
Mukhopadhyay, Ramprasanna	..	Ditto.
Chattopadhyay, Mohinimohan	..	Ditto.
Lahiri, Purnachandra	..	Ditto.
Kundu, Ramkumar	..	Ditto.
Ghosh, Binodbihari	..	Muir Central College.
Nag, Rebatikanta	..	Dacca College.
Basu, Jogendranath	..	Presidency College.
Pal, Tulsicharan	..	Ditto.

130. The Registrar submitted the result of the Examination for the Premchand Roychand Studentships.

RESOLVED—

That Asutosh Gupta be elected to a Studentship of Rs. 1,600 for the period of five years.

131. The Registrar submitted the result of the Examination for Honours in Arts and for the degree of M. A.

ORDERED—

That the names of the successful Candidates be published in the Gazette.

The following are the names of the successful Candidates for Honors in Arts :—

ENGLISH.

FIRST DIVISION

Mitra, Baradacharan	..	Presidency College.

SECOND DIVISION.

In Order of Merit.

Majumdar, Jadunath	..	Free Church Institution.
Ghosh, Isanchandra	..	General Assembly's Institution.
„ Jogendrachandra	..	Presidency College.
Bandyopadhyay, Asutosh	..	Free Church Institution.
Chattopadhyay, Gangacharan	..	Hughli College.

THIRD DIVISION.

In Order of Merit.

Mitra, Lalbihari	..	Hughli College.
Majumdar, Nilmadhab	..	Ditto
Ohdidar, Narendranath	..	Presidency College.

SANSKRIT.

SECOND DIVISION.

Chakrabarti, Asutosh	..	Sanskrit College.

ARABIC.

FIRST DIVISION.

Hushmat Ullah	..	Muir Central College.

HISTORY.

SECOND DIVISION.

In Order of Merit.

Ghosh, Mahendrakumar	..	Dacca College.
Bhawni Das	..	Lahore College.
Ghosh, Saradacharan	..	Dacca College.

MATHEMATICS.

SECOND DIVISION.

In Order of Merit.

Sen, Rajmohan	..	Presidency College.
Basu, Kalipada	..	Ditto.

THIRD DIVISION.

Chakrabarti, Jadabchandra	..	Presidency College.

PHYSICAL SCIENCE.

FIRST DIVISION.

In Order of Merit.

Ghosh, Kantibhushan	..	Hughli College.
Krishna, Rao Bhatt	..	Muir Central College.
Chandra, Aghornath	..	Presidency College.
Venayak Moreswar Kelkar	..	Muir Central College.

SECOND DIVISION.

In Order of Merit.

Saha, Ramlal	..	Patna College.
Sen, Ramlal	..	Presidency College.
Kedarnath	..	Lahore College.
Hari Lakshman, Indrakar	..	Muir Central College.

The following are the names of the successful Candidates for the degree of M. A. :—

In Alphabetical Order.

Basu, Prasannakumar	..	Dacca College.
Bhattacharyya, Haridas	..	Sanskrit College.
,, Ramaprasad	..	Ditto.
Maitra, Rajendralal	..	General Assembly's Institution.
Mukhopadhyay, Upendranath	..	Sanskrit College.
Sen, Dakshinacharan	..	Ditto
Sur, Akshaykumar	..	Presidency College.

132. Read a letter from the Rev. W. Hastie recommending that a student who fell short of the standard for Honours in English by one mark only, be allowed to pass in the 3rd class.

ORDERED—

That the Registrar inform Mr. Hastie that the Syndicate do not consider it advisable to give grace marks in the Honour Examinations of the University.

138. Read letters from the following gentlemen praying that their Sanskrit Anthologies compiled by them may be made text-books for the Entrance Examination, Professor Nilmani Mukhopadhyay, Pandits Syamacharan Mookerjea, Jaygopal Goswami, and Harischandra Bhattacharyya.

ORDERED—

That their compilations be laid before the Board of Studies in Sanskrit and Sanskritic languages.

134. The following gentlemen were appointed to conduct the Examinations in Arts for 1882-83 :—

ENTRANCE EXAMINATION.

English.

Rev. J. Edwards.
Mr. A. H. Pirie.
Rev. H. Finter.
Mr. H. M. Percival.

Sanskrit and Bengali.

Pandit Tarakumar Kabiratna.
Pandit Madhabchandra Sarma,
Pandit Syamacharan Mukhopadhyay.
Babu Biresvar Chattopadhyay.

History and Geography.

Dr. C. Baumann.
Mr. R. Carter.
Dr. P. K. Ray.
Rev. Lal Behari Dey.

Mathematics.

Dr. H. W. M'Cann.
Father E. H. Younan, S. J.
Rev. B. Davis.
Babu Bepinbihari Gupta.

Hindi and Uriya.

Rev. K. M. Banerjea, D. L.

FIRST ARTS AND B. A. EXAMINATION.

English.

K. Deighton, Esq.
A. C. Edwards, Esq.

Sanskrit.

Dr K. M. Banerjea.
Pandit Maheschandra Nyayaratna.

History.

W. T. Webb, Esq.
M. Prothero, Esq.

Philosophy

Dr A F Rudolf Hoernle. A. Thomson, Esq.

Mathematics.

A. M. Nash, Esq J. A. Martin, Esq

Natural Science.

S. A Hill, Esq A. Pedler, Esq.

Botany.

M. L. Brace, Esq.

ENTRANCE, F. A. AND B. A EXAMINATIONS.

Greek and Latin.

Rev J Hewlett. H Stephen, Esq

Arabic, Persian and Urdu.

Maulavi Abdul Hai Maulavi Ahmad.

135. The Registrar enquired on what day the Convocation was to be held.

RESOLVED—

That the Convocation be held on the 11th of March.

136. The Registrar enquired what fee was to be given to Dr. Forchhammer for setting and examining the Pali papers in the F. A. Examinations of 1881 and 1882.

ORDERED—

That the Registrar pay Dr. Forchhammer a fee of Rs. 100 for the two Examinations.

137. Read a letter from the Head Master of the District School, Delhi, enquiring whether it is possible for a blind student to go in for the University Examinations, and suggesting that his answers might be written down by some disinterested party.

ORDERED—

That the Registrar inform the Head Master of the District School, Delhi, that the Syndicate are not disposed to admit to the University Examinations, any Candidate who is incapable of writing down his own answers.

138. Read a letter from Babu Golapchandra Sarkar in continuation of his application for the Tagore Professorship enclosing copies of certificates from Professor Max Muller and Babu Prasannakumar Sarbadhikari.

ORDERED—

That the certificates be filed with the Candidate's application.

139. Read a letter from Colonel Tennant, Master of the Mint, stating that it has come under his notice that a medal is struck for the Principal of the Presidency College, under the name of the Gowalior Medal from the die bearing the University arms and which is used for all the University medals, and suggesting that the practice, which was instituted in the time of his predecessor, at the request of the Principal of the Presidency College, should be discontinued.

ORDERED—

That the Registrar inform Colonel Tennant, that the Syndicate agree with him in thinking that the University Die should not be used for the Gwalior Medal and that the Principal of the Presidency College will be requested to discontinue making use of it for that purpose.

140. The following F. A. and B. A. remuneration bill was passed:—

Name.	Subject.	Amount.		
W. T. Webb, Esq.,	English	2,039	0	0
Rev. R. J. Bell,		2,039	0	0
H. M. Percival, Esq.	Latin	300	0	0
A. C Edwards, Esq.		300	0	0
Rev. Dr K M. Banerjea	Sanskrit	1,515	8	0
Pandit Maheschandra Nyayaratna		1,515	8	0
Major H. S Jarrett	Arabic and Persian	393	0	0
Ditto for setting the papers		200	0	0
M. J. White, Esq.	History	1,770	8	0
Rev. J. Robertson		1,770	8	0
W. N. Boutflower, Esq.	Mathematics	2,072	0	0
Dr. H. W. M'Cann		2,072	0	0
The Rev. W. Hastie	Logic & Psychology	1,782	8	0
A. R. Thomson, Esq.		1,016	0	0
Dr. Murray Thomson	Physical Science	1,308	8	0
A. Ewbank, Esq.		348	0	0
Dr. Geo King	Botany,	300	0	0
R. Lydekker, Esq.	Geology	150	0	0
Ditto	Zoology & Physiology	150	0	0
	Total Rs.	21,042	0	0

141. The following B. L. remuneration bill was passed:—

Name.	Amount.		
N. N. Ghose, Esq.	540	8	0
Dr. Trailokyanath Mitra	540	8	0
Total Rs.	1081	0	0

142. The following Honours in Arts and M. A. remuneration bill was passed :—

Name	Subject.	Amount		
W T Webb Esq	English	150	0	0
Rev R J Bell	English	150	0	0
Rev Dr K M Banerjea	Sanskrit	150	0	0
Pandit Maheschandra Nyayaratna	Sanskrit	150	0	0
Major H S Jarrett	Arabic	300	0	0
M J White, Esq	History	150	0	0
Rev J Robertson	History	150	0	0
Rev W Hastie	Mental & Moral Science	150	0	0
A Thomson, Esq	Mental & Moral Science	150	0	0
A Ewbank Esq	Physical Science	150	0	0
Dr Murray Thomson	Physical Science	150	0	0
Dr H W M'Cann	Mathematics	150	0	0
W N Boutflower, Esq	Mathematics	150	0	0
Dr Geo King	Botany	150	0	0
R Lydekker, Esq	Geology	150	0	0
	Total Rs	2,400	0	0

143. The following Premchand Roychand Studentship Examinations bill was passed :—

Name	Subject	Amount		
A W Garrett Esq.	English	100	0	0
W T Webb, Esq	Latin	100	0	0
Rev Dr K M. Banerjea	Sanskrit	100	0	0
A M Nash, Esq	Pure Mathematics	100	0	0
W Booth Esq	Mixed Mathematics	100	0	0
Rev J Robertson	History	100	0	0
Rev W Hastie	Mental & Moral Science	100	0	0
J Eliot, Esq	Physical Science	100	0	0
	Total Rs	800	0	0

CHARLES H. TAWNEY.
Registrar.

(Confirmed),
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 8.

THE 9TH MARCH.

(In Circulation.)

144. The Examiners in Medicine and Surgery reported that the following Candidates had passed the Second Examination for the degree of Bachelor in Medicine and for the Licence in Medicine and Surgery.

SECOND M. B. EXAMINATION.

SECOND DIVISION.

In Alphabetical Order.

Bagchi, Kalikrishna	...	Medical College.
Basu, Narayanchandra	...	Ditto.
Chattopadhyay, Bipinbihari	...	Ditto.
Das, Sundarimohan	...	Ditto.
,, Siddheswar	...	Ditto.
De, Birchand	...	Ditto.
Mukhopadhyay, Sasibhushan	...	Ditto.
Pal, Umeschandra	...	Ditto.
Ray, Girijasankar	...	Ditto.
Sen, Khagendranath	...	Ditto.

SECOND L. M. S. EXAMINATION.

In Alphabetical Order.

Basu, Bibhudasankar	...	Medical College.
Chakrabarti, Bamacharan	...	Ditto.
Chattopadhyay, Jaykrishna	...	Ditto.
Das, Brajanath	...	Ditto.
Datta, Abinaschandra	...	Ditto.

Ghosh, Annadaprasad	...	Medical College.
Gupta, Nirmalchandra	...	Ditto.
„ Priyanath	...	Ditto.
Mukhopadhyay, Gopalchandra	...	Ditto.
Sengupta, Bishnupada	...	Ditto.

RESOLVED—

That the names of the successful Candidates be published in the Gazette.

CHARLES H. TAWNEY,

Registrar.

BENGAL SECRETARIAT LIBRARY

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 14.

THE 11TH MARCH.

Present:

HIS EXCELLENCY THE CHANCELLOR, *in the Chair.*

THE HON'BLE THE VICE-CHANCELLOR.
THE HON'BLE THE LIEUTENANT-GOVERNOR OF BENGAL
THE HON'BLE AUGUSTUS RIVERS THOMPSON, C. S. I, C. I. E.
THE HON'BLE J GIBBS, C S. I., C. I. E
REV. K. M. BANERJEA, D. L.
NAWAB ABDUL LATIF, KHAN BAHADUR.
RAI RAJENDRALALA MITRA, BAHADUR, D. L., C. I. E.
RAJA HARENDRAKRISHNA, BAHADUR.
BABU PIYARICHAND MITRA.
DR CHUNDER COOMAR DEY.
DR A J. PAYNE
BABU PRASANNAKUMAR SARBADHIKARI
REV. J. P. ASHTON, M A.
CHARLES H. TAWNEY, ESQ.
DR D. B. SMITH.
COLIN BROWNING, ESQ.
K. DEIGHTON, ESQ.
DR. MAHENDRALAL SIRCAR.
RAI KANAILAL DE, BAHADUR.
THE HON'BLE W. W. HUNTER, LL. D., C. I. E.
A. W. CROFT, ESQ.
MAJOR H. S. JARRETT.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
THE HON'BLE DURGACHURN LAW.
DR K. MCLEOD
BABU ANNADAPRASAD BANERJEA.
MAULAVI KABIRUDDIN AHMED
BABU SYAMACHARAN SARKAR.
THE HON'BLE ROMESHCHUNDER MITTER.
THE HON'BLE H. J. REYNOLDS.
DR H CAYLEY
THE HON'BLE MAHARAJAH JOTENDRA MOHUN TAGORE, C. S. I
THE HON'BLE SYUD AHMED, C. S. I.
A. MACKENZIE, ESQ.
THE HON'BLE AMEER ALI.
NAWAB ASHGAR ALI, KHAN BAHADUR, DILER JUNG, C. S. I.
DR. A. S LETHBRIDGE.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA, C I. E.
REV. LAL BEHARI DEY.
REV FATHER E. LAFONT, S. J., C. I. E.
A. M. BOSE, ESQ.
BABU KALICHARAN BANERJEA.
THE HON'BLE D. M. BARBOUR.
W. C. BONNERJEE, ESQ.
REV. JAMES ROBERTSON.
DR TRAILOKHYANATH MITRA.
W. GRIFFITHS, ESQ
DR GURUDAS BANERJEA.
REV. W. HASTIE, B. D.
DR. JAGABANDHU BOSE.
BABU SURYYAKUMAR SARBADHIKARI.
DR. R. HARVEY.
E. BUCK, ESQ.
BABU GOVINCHUNDER DUTT.
H. LEVINGE, ESQ.
SYUD MAHMUD, ESQ.
BABU KRISHNABIHARI SEN.
REV K. S. MACDONALD.
THE VEN'BLE ARCHDEACON BALY.
DR. J. M. COATES.
BABU HEMCHANDRA BANERJEA.
BABU RADHIKAPRASAD MUKERJI.
BABU LALMADHAB MUKERJEE.
THE HON'BLE L. R. TOTTENHAM.
THE HON'BLE KRISTODAS PAL, C. I. E.
COL S T. TREVOR, R. E.
DR E. A. BIRCH.
SYUD AMIR HOSSEIN.

145. The Senate was convened for the purpose of conferring degrees.

The Vice-Chancellor having declared the Convocation opened, the Graduates of the year were admitted to their respective degrees in the usual manner.

His Excellency the Chancellor then addressed the Senate and Graduates as follows :—

MR. VICE-CHANCELLOR AND GENTLEMEN,

It is no light task for any one to be called upon to address an assembly like this, and to occupy even for a brief space the attention of such a body as the University of Calcutta; and if the undertaking be an arduous one for those who have ample leisure to prepare themselves to accomplish it with all the thought and deliberation which it demands, what must it be for one who can only snatch a few scattered half hours in the midst of the absorbing duties of such an office as that which I now fill in this country. I feel therefore, Gentlemen, in presenting myself before you to-day, that I have more than ordinary need of that indulgence, which is always so readily accorded by the learned to those who can lay no claim to that honourable title.

It is a quarter of a century almost to a day since the Act of 1857 laid the foundations of this Institution and appointed as its first Chancellor that distinguished statesman, Lord Canning, who had hardly entered upon his duties in connection with this peaceful and beneficent work, when he had to encounter with that calm courage and that deep sense of justice, for which he was so eminent, the most terrible storm which ever swept over India since she came under British rule. But that storm, of which so many of the traces are scarcely yet effaced, left the Calcutta University uninjured and ready to start forth upon the great work entrusted to it the moment the return of quiet enabled it to do so; and when our minds recur to the date at which the University took its rise, we cannot fail to be struck by the thought that the object which this Institution has in view was one pre-eminently needed at the moment when the dreadful transactions of the Mutiny were closed; for that object is in the main to bring together and to unite the European and the Native in the common pursuit and the common love of knowledge. We may then, I think, say, Gentlemen, that on this occasion, when we commemorate the termination of the 25th year of the life of this University, we are met together to celebrate the Silver Wedding of Western and Eastern

learning, and to offer our best and most earnest wishes for the long and fruitful continuance of an union which is capable of conferring so many benefits upon East and West alike.

Such then was the origin and purpose of this University; but when we speak of it by that high title, we must always remember that it discharges only a portion of the functions of a complete University. It is in the main an examining body; it is not a place of study, so much as a place where study is tested. When I say this, however, it is not for the purpose of disparagement or complaint, but for the sake of accuracy. We have the example of the University of London to show us that very good work may be done by an institution of this kind, and, indeed, we need no further proof that it is so than that which is afforded by the experience of the Calcutta University itself. It is not, however, solely by the direct operation of its examinations that this University takes part in the general educational work of the country. Standing at the head of the system of education of this side of India, it exercises a great and controlling influence over the teaching of the Colleges and Schools below it. It tests their work, and consequently it practically directs their studies, and in this way it constitutes a most important portion of our educational organisation, and is largely responsible for the tone and character of the studies carried on in the lower institutions. Such an influence as this grows with the growth and popularity of the University, and becomes day by day more and more potent for good or for evil. It might be easily used for the mischievous purpose of reducing all our Colleges and Schools to one single type, and of checking all variety of education and training. This is a danger which I earnestly trust that the authorities of the University will always bear in mind, and against which they will, I hope, take every possible precaution. Measures have lately been adopted having that object among others in view, and it is very satisfactory to know that those in whose hands the government of the University is placed are fully alive to the importance of leaving the utmost possible freedom to the subordinate institutions, both for the development of the faculties of their pupils, and for the preservation of the influence of the personal character of their teachers.

There is also another direction in which not this University alone, but all the educational establishments in the country of which the management is in any degree directly connected with the Government, fail, and necessarily fail, to

afford the means of a full and complete education. The Government of India is required by solemn pledges strictly binding upon it in honour and good faith to do nothing calculated to interfere directly or indirectly with the religion or the religious feelings of the Native population, and it is, therefore, impossible for that Government in any of its places of education to attempt to give anything in the nature of religious instruction, or to interfere with that great branch of education at all. I fully recognise that it is only in this way that the British Government in this country can fulfil the engagements into which it has entered, and which form part, so to speak, of the constitutional arrangements of India; but I could not refrain from alluding to the limitation thus placed upon the scope of our education, because it is one of my deepest convictions that a system of education which makes no provision for religious teaching is essentially imperfect and incomplete. I do not hold that such a system does no good, or that, when its existence is the necessary result of the circumstances of the time and country in which it is to be found, it is not deserving of encouragement and support. All truth is one, and one portion of it cannot be in real conflict with another. I hail then every effort to develope the minds of men and to store them with sound knowledge of every kind. I look upon it as an object of the highest interest and importance to the Government of this country to promote to the utmost the intellectual culture of the people of India of all races and creeds, among whom are to be found in all classes so many men of high intellectual qualities, who are eminently capable of profiting to the full by the best mental training which can be supplied to them. But I should not express my whole mind upon this great subject of education if I were to conceal my belief that what in the language of the day is called a purely secular education is not a complete education in the highest and noblest sense of the word.

This question of education is, as you are aware, Gentlemen, occupying at the present time a large share of the attention of the Government. We are deeply impressed with its importance; we desire to advance farther along the path which our predecessors have followed, and to spread the benefits of elementary instruction more widely than has yet been done among the masses of the people without retarding the development of that higher instruction in which, up to this time, the chief progress has been made. We have appointed a Commission on which we have endeavoured to secure, as far as possible, representatives of all interests and

opinions, and we trust that its inquiries will result in the collection of much valuable information and the proposal of such measures as are required by the present condition of the country. We have not included in the duties entrusted to the Commission any examination into the state or working of the Indian Universities, because there is ample evidence before us that they are discharging their special functions with an amount of success, and of satisfaction to the public, which justifies us in placing a large confidence in those to whom the management of these institutions is entrusted. It is not at the summit of our educational system that improvement is most urgently required, but at its base. Our Universities are constituted and are drawing ever-increasing crowds of students to their examinations till we are forcibly reminded of the multitudes which flocked to the Universities of Europe in the Middle Ages, and until it is doubtful, as Sir H. Maine once remarked on an occasion similar to this, "whether there is anything founded by, or connected with, the British Government in India which excites so much practical interest in native households of the better class, from Calcutta to Lahore, as the examinations" of our Indian Universities. A large number of Colleges and Higher and Middle Schools exist, and, though there may be many points in which their management and the instruction given in them may be improved, it is to those points, rather than to any large increase in the number of such institutions, that our attention should be especially directed.

But in regard to Primary Education, there is a vast field before us. I am not at all inclined to underrate what has been already done in that branch of our educational system. Speaking here in the chief city of Bengal, I should be very ungrateful if I did not note, by way of example, the important measures by which Sir G. Campbell laid—deep and solid as I hope and believe—the foundations of Elementary Education in this Province. It is one among the many claims of that distinguished person to the gratitude of Bengal and of India. But when we make the largest and fairest allowance for all that has been already accomplished, the work which remains to be done, if judged by European standards, is so enormous, when compared with the resources at our disposal at present, as almost to make us despair of the accomplishment of the task. Yet, apart from the general importance of popular education, there are special circumstances connected with the particular stage of general education at which we have arrived in this country

which makes the wide extension of sound elementary instruction among the people at large a matter of peculiar urgency. We have now in India, as the result of the spread of Middle and Higher Instruction, an educated class increasing in numbers from year to year, but still a mere handful when compared with the great mass of the people, for whom the means even of the most rudimentary instruction are very limited, and of whom a large proportion are not brought within the civilizing influence of the school at all. This does not seem to me to be a healthy state of things. It is not desirable in any country to have a small highly educated class brought into contact with a large uneducated mass; what is wanted is that instruction should be more equally distributed, that the artizans and peasants of the land should have brought within their reach such opportunities for the cultivation of their faculties as may be possible under the circumstances of their condition, and that there should be no sharp line drawn between the educated few and the ignorant and untrained many. The circumstances of India under British rule have led to the establishment in the first instance of places of Higher and of Middle Education, and our progress has been marked by what has been described as a process of filtration downwards. I make no complaint of this, but I feel strongly that the most difficult, and yet the really most important, part of our task lies before us, and it has become urgently necessary that we should address ourselves to its accomplishment.

But when we do so we are met at the very outset by a difficulty of a formidable kind. To establish a real and effective system of general Primary Education requires a very large expenditure. Where are the funds to come from? We all know that the financial resources of the Government of India are strictly limited, and we know also that the demands upon them are very great. Supposing the Government to devote to this object of Primary Education every rupee which it can spare from other purposes, the total amount will inevitably found to be comparatively small, and it is, therefore, absolutely necessary that the friends of education should avail themselves, to the utmost of their power, of every other source of income which may be open to them. We must have recourse to all classes of men, and make use of every variety of motive. We must appeal to private individuals, to public bodies, to patriotic feeling, to religious zeal, and to the desire of personal distinction. I do not know that I can better illustrate the kind of aid

which may be derived from these sources than by inviting you to consider with me for a moment what is done in this way in England. It is a very general practice—I should not be very far wrong if I were to say that it is an almost universal practice—for the wealthier land-owners to maintain the village school very largely, often entirely, at their own cost, with the exception of what they receive from the Government grant-in-aid, and from the small payments made by the parents of the children. These schools are under Government inspection, the scholars are regularly examined by Government officers, and, as I have said, grants-in-aid are given, but the whole management is in the hands of the local land-owner, or of a committee of local subscribers, who take a keen interest in the efficiency of the school and the progress of the children. Is there not here an example which might well be followed more largely in this country than it has hitherto been? In England the case is still stronger in regard to Higher and Middle Education;—towards the support of Primary Education the Government contributes largely; towards that of Higher and Middle Education it does not, broadly speaking, contribute at all. Sir H. Maine, in one of those remarkable addresses which he delivered when he held the office of your Vice-Chancellor, reminded his hearers how the great English Universities were founded, not by grants of public money, not even, except to a limited extent, by kings and queens from their personal resources, but by the liberality of private individuals, many of whose names are now remembered only because they are enrolled upon the honoured lists of the benefactors of Oxford and Cambridge; and as it has been with the Universities, so has it been with the Colleges, Public Schools, and Grammar Schools of England; they are the foundations of private men; they date back to days when England was not a wealthy country as we count wealth at present—when the proudest of English Nobles would have been but a poor man indeed, by the side of many of the great Chiefs and Zemindars of the India of to-day. I know no reason why that which has been done in the past, and is done every day now, not by great nobles, but by private gentlemen in England, should *not* be done by gentlemen of wealth and station in this country. I am not one of those who think that my countrymen possess a monopoly of all the higher qualities and all the virtues of mankind. I decline to believe that the patriotism, the public spirit, the charity, the interest in their poorer neighbours, which have prompted

men to these deeds in England, have no counterpart in this country. There may have been times when the gentlemen of India did not come forward to aid in such undertakings, because they thought that the Government did not wish them to be active in public affairs and preferred to keep the control of every thing in its own hands; but whatever may have been the case in the past, at all events such an excuse cannot be urged now. We invite you to come forward, we desire your co-operation, we wish to see you taking a larger and larger share in public affairs of all kinds, and we esteem it a great help to the Government, as it is undoubtedly a great advantage to yourselves and to the people at large, that you should employ your wealth and strengthen your influence by public services, such as those which I have here described, freely rendered and gratefully received. If I mistake not, such benefactions are entirely in accordance with the spirit both of Hindoo and of Mahometan traditions. We have noble examples of them down to the present day. All I would ask is that an increasing share of the available private wealth of the country may be devoted to a work so noble and so urgent as the spread of sound education among all classes of the people. The Roman poet boasted *Exegi monumentum ære perennius, regalique situ pyramidum altius;* and so it will be with you. A single school founded, a single College aided, nay I will say also a single scholarship provided, will do more in the times which are before us to uphold the honour of an ancient name, or to create the reputation of a new one, than any outward show of dignity or any personal display of wealth.

But if I thus earnestly ask aid from native gentlemen in this great work of education, it is not solely, nor even mainly, in order to obtain the funds which we so urgently need; it is yet more, because I believe it to be of the very highest importance to give to our educational system that variety which alone can secure the free development of every side and aspect of the national character. It has often been the dream of despots to establish a system of education which would cast the whole of a great people in one mould, and train them up in a blind and unreasoning submission to the will of a central power. This was the aim of the first Napoleon when he founded the University of France and gave it complete control over the whole education of the country. All Frenchmen were to be brought up exactly alike and taught to believe that their first duty was to love and obey the Emperor, whoever he might be, and whatever

he might command; and no one who is acquainted with the subsequent history of French education can fail to be struck with the deep root which this pernicious system, once established, has taken in France, and the strange way in which it has survived all political changes and been adopted by almost all political parties in succession because it afforded them a powerful engine for the compulsory propagation of their own opinions. Now such a scheme as this is alien from the genius of the English people and contrary to the policy which it would be wise for the English Government to pursue in India. We are here in the midst of ancient peoples possessed of civilization, of literature, and of art of their own, and our business is not to try and force them to reject their past, to forget all that is characteristic in their history and their traditions, and to convert themselves into bad imitations of modern Englishmen, but to place without stint at their disposal all the riches of Western science and Western culture, that they may blend them in one harmonious union with the treasures of their own Oriental learning. If ever there was a country in which educational variety was a necessity, it seems to me that India is that country. It is a land of many races and many creeds. Hindoo, Buddhist, and Mahometan traditions are essentially different, and have each given rise to a different literature and a varied form of civilization. If we leave things to take their free and natural course, Western learning will combine with each of those great forms of Indian thought in a different and characteristic manner; and, though its ultimate tendency may be to unity, it will reach that unity by varied means and along separate paths; and in the midst of that unity, when it is at length attained, it will, like the great forests of tropical climes, preserve that rich and infinite variety which is one of the principal sources of the beauty of nature. How then can this great end be attained? It seems to me that it can be attained only by securing for our educational work the co-operation of the great indigenous influences which are still living and active in the country. No purely Government system can do this. The inevitable tendency of Government education is to become stereotyped; to take up definite lines and to follow them; to fall into certain grooves and never to get out of them; and, therefore, if you want variety, if you want free growth and unfettered development, if you want to see various experiments tried and ignorance attacked on every side, you must frankly call in the aid of the public, you must encourage their efforts and give them

ample scope. Your educational system will in this way not be so symmetrical, but it will be more natural; its results will be less uniform, but they will be more full.

But it may be asked why do you make this appeal so urgently now? What is there in the circumstances of the present time which leads you to hold a great educational effort to be so necessary? I have already given you some reasons for the view which I take of the matter, but there is one which especially weighs with me, and to which I will now advert. I often heard it said in England, before I came out to this country, that there was nothing like real and effective public opinion in India, and that the want of it was one of the special difficulties which the Government of India had to encounter. Few things have struck me more during the time that I have been here than the various proofs which I have seen of the existence of a substantial public opinion which is evidently growing and strengthening from day to day. I do not mean to say that there yet exists in India that general, widespread constraining public opinion which is to be found in European countries, and which, when its voice is clearly heard, is the irresistible and unresisted master of Governments and Parliaments. Public opinion here is still to a great extent split up into sections, and represents very often only the views and interests of classes or of coteries; while the great mass of the people, the operatives of towns, and the cultivators of the rural districts, are still unhappily without direct means of making their voices heard; but with all these drawbacks and shortcomings the power and influence of general public opinion, which is of course in the main native opinion, is obviously extending and advancing with sure and steady step. No prudent Government and no wise statesman would despise or disregard it, while at the same time it has not yet arrived at that condition of solidity and depth which would make it the powerful instrument for warning and enlightening the administration which it is in England and other Western countries. My experience has also taught me the great difficulty which often exists on the part of Europeans on the one side and natives on the other in understanding each others point of view. What seems a self-evident proposition to the one often appears to be almost incomprehensible to the other; not certainly from want of intelligence, but from entire difference of habits of thought; and yet as we, the men of both races, have to work together for a common end—the good of India and the well-being of her people,—it is

of the utmost importance that every obstacle which prevents us from entering easily and fairly into each other's mode of regarding the many questions with which we have to deal in common should be removed. How then can this be done? How can public opinion be made more intelligent, more wide, more just, more united, and therefore more powerful and effective? By the spread of solid education alone. By education the writers in the Press, who have in these days so large a share in the formation of public opinion, will learn to judge events more wisely, to weigh rumours more accurately, to reason more soundly, and to appreciate more justly the real value of words, while by the same means the public, to whom they speak, will become every day less liable to be misled by absurd reports, or carried away by hollow declamation, and more capable of forming their own independent judgment on what concerns their own interests, and impressing it upon those who profess to speak in their name. This is a process which must be gone through in every country before public opinion can obtain that powerful influence on public affairs to which in its full development it is justly entitled; and the best mode of hastening the completion of that process is to promote the spread, throughout all classes of the community, of an education calculated to strengthen the mental faculties and to steady the judgment.

And now, Gentlemen, I should like, with your permission, to say a few words with reference to the general purpose of all education and to the spirit by which the true student should be animated. The purpose of real education I take to be, not merely to fill the mind of the student with a large number of facts, not to enable him to talk glibly about a variety of sciences, not even to secure his passing all the examinations of his University, but to cultivate, to develope, and to strengthen the various faculties with which he has been endowed. If I am right in this, the first thing needed in education is thoroughness of knowledge; the mental powers can be better trained by knowing a few things thoroughly than by knowing many things superficially, and yet there are many circumstances in these days which tend to tempt men, and especially young men, to superficiality and to turn them aside from depth. The very extent and variety of the subjects of study which are offered to us in modern times, the many new sciences and branches of science which have been opened out to us within the last half century, the natural eagerness of youth to sip one after

another at the beautiful flowers which grow so richly in the garden of learning, and last, but not perhaps least, the inevitable tendency of a wide and varied curriculum of examination,—all tend in the same direction; and yet if you measure the result of the education which a man has received, not by the number of topics upon which he talks fluently in ordinary society, but by the number of those of which he has a real firm grasp; not by the books which he has read, but by those which he has digested; not by the facts which he has laid up in his memory, but by the accuracy of his judgment, the strength of his reasoning powers, and the force of his intellect,—you will soon be convinced that more real mental training is to be derived from the thorough study of a single subject than from a skin deep acquaintance with a hundred sciences. I would say then to every student—Be thorough; know what you know as fully and completely as you can; use the fruitful spring time of youth, when your intellectual powers are fresh and full of growth, to strengthen, to widen, to develope them on every side, rather than to fill your mind with miscellaneous knowledge which you can gather, as far as may be needful for you, much more easily in after life, if while you are young you have improved to the utmost the instrument by which all knowledge is obtained. Spring is the time for working the ground and putting in the seed; autumn is the time for gathering in the harvest and storing it in barns.

And then again I would say to you, while you know accurately what you do know, while you are thoroughly acquainted with the true extent of your knowledge, keep also constantly bofore you, with no less care and accuracy, a true sense of your ignorance. Few things are more useful to a student than that he should constantly recall to mind how many subjects there are of which he knows nothing; the more he realizes this the surer will be his hold of the subjects which he has fully mastered; the juster will be his appreciation of the real nature of solid learning, and the more sure will be the growth within him of that modesty which is the prime mark of the true student. And, lastly, let us ever remember that the end of life after all is not to know, but to be. The usefulness of knowledge depends upon the use we make of it. If we use it for selfish objects or ignoble purposes, we had better have been without it. Those high and noble faculties of mind and will which are the exclusive inheritance of no age or race or country have been given to us, not that we may employ them for our own

benefit alone, or cultivate them merely for their own sake, but that, developing them to the utmost, we may apply them all to advance the glory of Him Whose gifts they are, and to promote the welfare of our fellowmen, who, wheresoever they may dwell, and whether they be rich or poor, learned or ignorant, are all alike the children of one common Father.

The Vice-Chancellor then declared the Convocation closed.

CHARLES H. TAWNEY,
Registrar.

(Confirmed),
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 9

THE 17TH MARCH.

(In Circulation.)

146. Read a letter from Mr. Charles H. Tawney tendering his resignation of his appointment as Registrar and a letter from Mr. G. Bellett offering himself as a candidate for the post.

RESOLVED :—

That Mr. C. H. Tawney's resignation be accepted with effect from the date mentioned in his letter and that Mr. G. Bellett be appointed to officiate as Registrar until the 1st of May of the current year.

CHARLES H. TAWNEY,
Registrar.

(Confirmed),
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1881-82.

No. 14.

THE 25TH MARCH.

Present:

THE HON'BLE THE VICE-CHANCELLOR, *in the Chair.*

THE HON'BLE WHITLEY STOKES, C. S. I., C. I. E
REV. K. M. BANERJEA, D. L.
RAI RAJENDRALALA MITRA BAHADUR, D. L., C. I. E.
RAJA HARENDRAKRISHNA BAHADUR.
DR. CHANDRAKUMAR DE.
H F. BLANFORD, ESQ.
BABU PRASANNAKUMAR SARBADHIKARI.
CHARLES H. TAWNEY, ESQ.
COLIN BROWNING, ESQ.
H. BELL, ESQ.
K. DEIGHTON, ESQ.
RAI KANAILAL DE, BAHADUR, F. C. S., F. S. SC.
A. W. CROFT, ESQ.
MUNSHI TAMIZ KHAN, KHAN BAHADUR.
THE HON'BLE DURGA CHARAN LAW.
MAULAVI KABIRUDDIN AHMED.
THE HON'BLE H. J REYNOLDS, C S.
THE HON'BLE SYUD AHMED KHAN, C. S. I.
THE HON'BLE AMIR ALI.
JOHN ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA, C. I. E.
REV. LALBIHARI DE.
A. M. BOSE, ESQ.
BABU KALICHARAN BANERJEE.
THE HON'BLE H. S. CUNNINGHAM.
THE HON'BLE G. H. P. EVANS.
W. C. BONNERJEE, ESQ.
REV JAS. ROBERTSON.
ALEX. PEDLER, ESQ.
DR. A. F. RUDOLF HOERNLE.
BABU GURUDAS BANERJEE, D. L.
REV. W. HASTIE, B. D.
BABU SURYYAKUMAR SARBADHIKARI.
A M NASH, ESQ.
BABU GOBINCHUNDER DUTT.
SYUD MAHMUD, ESQ.
REV. H FINTER.
BABU KRISHNABIHARI SEN.
W. T. WEBB, ESQ.
J. S. SLATER, ESQ.
J. WILSON, ESQ.
BABU RADHIKAPRASAD MUKERJHA.
BABU LALMADHAB MUKERJEA.
THE HON'BLE L R. TOTTENHAM.
THE HON'BLE KRISHNADAS PAL, C. I. E.
G. BELLETT, ESQ.
MAULAVI SYUD AMEER HUSSAIN.

147. The Senate met to elect a Tagore Law Professor.

The following gentlemen were candidates for the Professorship and their names were laid before the Senate,—the proposed subject for lectures being mentioned opposite to each candidate's name :—

J. J. H. Nelson, Esq., ...	...	The Hindu Law of Inheritance, Partition, and Adoption according to the Smritis.
W. C. Niblett, Esq., ...	...	Ditto ditto.
Professor J Jolly, ...	...	Ditto ditto.
Babu Golapchandra Sarkar,	...	Ditto ditto.
„ Bipinchandra Rai, ...	...	Ditto ditto.
Lawrence Beale, Esq., ...	...	The Law of Testamentary Devise as administered in British India.
N. N. Ghose, Esq., ...	...	Ditto ditto.
Gilbert S. Henderson, Esq.,	...	Ditto ditto.
J. A. Shearwood, Esq , ...	...	The Law relating to Negotiable Instruments.
Maulavi Obaid Ullah, ...	...	The Law relating to the disposition of property among the Mahomedans.
Amir Ali, Esq., ...	...	Ditto ditto.

Mr. W. C. Bonnerjee proposed that Prof. Jolly of Würzburg should be elected Tagore Law Professor for the term of one year from the 1st of September 1882, and that the subject for the Professor's lectures should be the Hindu Law of Inheritance, Partition and Adoption according to the Smritis, as recommended by the Syndicate in consultation with the Faculty of Law.

The Hon'ble H. S. Cunningham seconded the motion.

Mr. Syud Mahmud proposed that Mr. Amir Ali should be elected Tagore Law Professor for the term of one year from the 1st of September next, and that the subject of his lectures should be the Law relating to the disposition of property among the Mahomedans.

Dr. Rajendralala Mitra, C. I. E. seconded the proposal.

Mr. Amir Ali having expressed his unwillingness to go to a division, the proposal of Mr. Syud Mahmud was withdrawn.

The original proposal was then put to the vote and carried.

148. The proposed rules for the conduct of the examinations for the Premchand Roychand "Studentship" as recommended by the Syndicate having been circulated to all the members of the Senate were taken as read.

It was moved by Mr. Charles H. Tawney and seconded by Mr. H. F. Blanford that the rules for the conduct of the Examinations for the Premchand Roychand Studentship be adopted in place of those now in force.

Mr. A. M. Bose proposed as an amendment that all the words after the word "that" be omitted, and the following words be substituted for them—"The Syndicate be request-

ed to refer to the Faculty of Arts for consideration and report the question of the best plan for utilising the Premchand Roychand Endowment."

Mr. A. W. Croft seconded the amendment which was carried.

G. BELLETT,
Offg. Registrar.

(Confirmed.)
ARTHUR WILSON,
Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 10.

THE 3RD APRIL.

(In Circulation.)

149. Read a letter from the Under-Secretary to the Government of India, Home Department, stating that His Excellency the Governor-General in Council has been pleased to appoint the undermentioned gentlemen to be Fellows of the University,

THE HON'BLE L. R. TOTTENHAM, C. S.	D. O'C. RAYE, ESQ., M. D.
THE HON'BLE FRANKLIN PRESTAGE.	E. A. BIRCH, ESQ., M. D.
THE HON'BLE KRISTODAS PAL, C. I. E.	G. BELLETT, ESQ., M. A.
THE RIGHT REV. P. A. BIGANDET, D. D.	S. F. DOWNING, ESQ., B. A.
COL. S. T. TREVOR, R. E.	J. WILLSON, ESQ., M. A.
	MAULAVI SYUD AMEER HOSSEIN.

Ordered—

That the Fellows be distributed as follows :

The Hon'ble Kristodas Pal, C. I. E..	...	*Faculty of Arts.*
Right Rev. P. A. Bigandet, D. D.,...	...	
G. Bellett, Esq., M. A. ...	...	
J. Willson, Esq., M. A., ...	...	
Maulavi Ameer Hossein, ...	...	
The Hon'ble L. R. Tottenham, C. S ,	...	*Faculty of Law.*
D. O'C. Raye, Esq., M D., ...	...	*Faculty of Medicine.*
E. A Birch, Esq., M. D , ...	...	
The Hon'ble Franklin Prestage, ...	...	*Faculty of Engineering.*
Col. S. T. Trevor, R. E. ...	...	
S. F. Downing, Esq , B. A., ...	...	

G. BELLETT,
Offg. Registrar.

MINUTES

OF

THE FACULTY OF ARTS

FOR THE YEAR 1881-82.

No. 2.

THE 12TH APRIL.

Present:

A. W. CROFT, ESQ., *in the Chair.*

REV. K. M. BANERJEA, D. L.
BABU PRASANNAKUMAR SARBADHIKARI.
J. ELIOT, ESQ.
PANDIT MAHESCHANDRA NYAYARATNA, C. I. E.
REV. LALBIHARI DE.
A. M. BOSE, ESQ..
BABU KALICHARAN BANERJEA.
REV. JAS. ROBERTSON.
A. PEDLER, ESQ.
REV. W. HASTIE, B. D.
A. M. NASH, ESQ.
REV. H. FINTER.
BABU KRISHNABIHARI SEN.
REV. K. S. MACDONALD.
J. WILSON, ESQ.
MAULAVI SYUD AMEER HOSSEIN.

150. The Faculty met to elect a President and Representatives in the Syndicate for the year 1882-83.

On the motion of the Rev. W. Hastie, seconded by Pandit Maheschandra Nyayaratna, Mr. A. W. Croft was called to the Chair.

The Rev. Jas. Robertson then proposed that the Faculty proceed to elect a President and thenafter to the election of Representatives in the Syndicate.

Mr. John Eliot seconded the motion which was carried.

Babu Prasannakumar Sarbadhikari proposed that Mr. A. W. Croft be elected President of the Faculty for the year 1882-83.

Dr. K. M. Banerjea seconded the motion.

Carried unanimously.

The following gentlemen were proposed as Representatives for the ensuing year.

Mr. A. M. Bose proposed by Maulavi Ameer Hossein.

Mr. A. W. Croft and the Rev. W. Hastie proposed by Rev. K. M. Banerjea.

Rev. J. Robertson proposed by Mr. Nash.

The Hon'ble H. J. Reynolds proposed by Mr. Pedler.

Rev. Father Lafont proposed by Mr. Eliot.

Dr. Rajendralala Mitra proposed by Babu Prasannakumar Sarbadhikari.

A ballot was taken and Mr. Croft, Mr. Bose and Mr. Robertson were elected Representatives in the Syndicate for the year 1882-83.

G. BELLETT,
Offg. Registrar.

(Confirmed.)
A. CROFT,
Chairman.

MINUTES

OF

THE FACULTY OF ENGINEERING

FOR THE YEAR 1881-82.

No. 5.

THE 13TH APRIL.

Present:

H. LEVINGE, ESQ., *President, in the Chair.*

JOHN ELIOT, ESQ.
J. S. SLATER, ESQ.
COL. S T TREVOR.
BABU RADHIKAPRASAD MUKERJEA.

151. Proposed by Col. Trevor, seconded by Mr. J. Slater that Mr. Levinge be elected President and Representative in the Syndicate for the year 1882-83.

Carried unanimously.

G. BELLETT,
Offg. Registrar.

(Confirmed.)
H. C. LEVINGE,
President.

MINUTES

OF

THE FACULTY OF LAW

FOR THE YEAR 1881-82.

No. 3.

THE 14TH APRIL.

Present:

THE HON'BLE ROMESHCHUNDER MITTER, *in the Chair.*

BABU ANNADAPRASAD BANERJEA.
J. H. A. BRANSON, ESQ.
THE HON'BLE AMIR ALI.
BABU MOHINIMOHAN RAY.
DR TRAILOKYANATH MITRA.
THE HON'BLE L. R. TOTTENHAM.

152. On the motion of the Hon'ble Mr. Ameer Ali, seconded by Dr. Trailokyanath Mitra, the Hon'ble Romeshchunder Mitter was called to the Chair.

The Faculty met to elect a President and Representative in the Syndicate for the year 1882-83.

The Hon'ble Rameshchunder Mitter proposed that Mr. W. C. Bonnerjee be elected President and Representative in the Syndicate for the year 1882-83.

The Hon'ble Ameer Ali seconded the motion which was carried unanimously.

G. BELLETT,
Offg. Registrar.

(Confirmed.)
ROMESHCHUNDER MITTER,
Chairman.

MINUTES

OF

THE FACULTY OF MEDICINE

FOR THE YEAR 1881-82.

No. 4.

THE 14TH APRIL.

Present:

DR. H. CAYLEY, *President, in the Chair.*

DR. D. B SMITH.
RAI KANAILAL DE BAHADUR.
DR. GEO. KING.
DR. R. HARVEY.
BABU LALMADHAB MUKERJEE.
DR. E. A. BIRCH.
DR. D. O'C. RAYE.

153. The Faculty met to elect a President and Representative in the Syndicate for the year 1882-83.

Dr. Geo. King proposed that Dr. A. J. Payne be elected President and Representative in the Syndicate for the year 1882-83.

Dr. D. O'C. Raye seconded the motion which was carried.

G. BELLETT,
Offg. Registrar.

(Confirmed.)
H. CAYLEY,
President.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 11.

THE 15TH APRIL.

Present:

THE HON'BLE ARTHUR WILSON, *in the Chair*.

A. W. CROFT, ESQ.
THE HON'BLE H. J. REYNOLDS.
DR H. CAYLEY.
W. C. BONNERJEE, ESQ.

154. The Registrar submitted the Report of the Syndicate for the year 1881-82.

ORDERED—

(1) That the Report be adopted, printed, and circulated to the members of the Senate before the annual meeting.

(2) That the annual meeting of the Senate be held on Saturday the 29th of April.

155. Read the proceedings of the Faculty of Arts at their meeting on the 12th of April 1882.

ORDERED—

To be recorded.

156. Read the proceedings of the Faculty of Law at their meeting on the 14th of April 1882.

ORDERED—

To be recorded.

157. Read the proceedings of the Faculty of Medicine at their meeting on the 14th of April 1882.

ORDERED—

To be recorded.

158. Read the proceedings of the Faculty of Engineering at their meeting on the 13th of April 1882.

ORDERED—

To be recorded.

159. The Registrar submitted the accounts of the University for the year 1881-82.

ORDERED—

That the accounts be passed.

160. The following gentlemen were appointed to conduct the Examination in Civil Engineering for 1882.

J. Eliot, Esq.	...	...	Physical Science.
W. Booth, Esq.	...	...	Mathematics.
D. B. Horn, Esq.	...	}	Engineering.
C. W. Odling, Esq.	...	}	

ORDERED—

That the appointment of an Examiner in Drawing be postponed.

161. The Registrar submitted the result of the First M. B. and the First L. M. S. Examinations.

ORDERED—

That the names of the successful candidates be published in the *Gazette*.

162. Read a letter from the Principal of the Medical College forwarding an application from Ganeschandra Mitra, Annadaprasad Ghosh, and Amarnath Bandyopadhyay who went up for the First M. B. Examination in February 1882 and were rejected in Comparative Anatomy only, praying that they might be Gazetted as having passed the First L. M. S. Examination.

ORDERED—

That all the Candidates who went up for the First M. B. Examination in February 1882 and failed in Comparative Anatomy only be Gazetted as having passed the First L. M. S. Examination.

163. Read a letter from the Under-Secretary to the Government of India, Home Department, sanctioning the amended Regulations for the F. A., B. A. and M. A. Examinations.

ORDERED—

To be recorded.

164. Read a letter from the Under-Secretary to the Government of India, Home Department, sanctioning the change in the Regulations in Medicine.

ORDERED—

To be recorded.

165. Read the proceedings of the Faculty of Engineering at their meetings on the 20th December 1881 and the 23rd January 1882.

RESOLVED—

That the recommendations of the Faculty of Engineering be referred back to the Faculty with a request that they will consider the desirability of substituting for two degrees and two licences, one degree and one licence with two branches, after the analogy of the Degrees in Arts.

No 669 dated 3rd March 1882 and enclosures

166. Read a letter from the Under-Secretary to the Government of India, Home Department, forwarding copy of a letter from the Government of the North-Western Provinces and Oudh with correspondence noted in margin and enquiring whether any copies of the Tagore Law Lectures could be supplied for the Libraries of the District Courts of the North-Western Provinces.

167. Read also a letter from the Secretary of the Metropolitan Institution requesting that 5 copies of the Tagore Law Lectures may be presented to that Institution.

ORDERED—

That the Registrar make enquiries as to the number of Courts in the North-Western Provinces to which it would be necessary to supply copies of the lectures, and that he also ascertain the number of spare copies, and report on and suggest modifications in the list according to which the distribution of the lectures is at present made.

168. Read the proceedings of the Senate at their meeting on the 25th of March.

RESOLVED—

That the question of the best plan for utilizing the Premchand Roychand endowment be referred to the Faculty of Arts for consideration and report.

169. Read a letter from the Registrar of the University of London forwarding for the information of the Senate the following Resolution with regard to the Examinations of the London University.

"That formal notice be given to the Universities of Melbourne, Sydney, Calcutta, and Madras that from and after February 1884 Graduates of those Universities will not be admitted to the Intermediate Examination in the several Faculties or to the Preliminary Scientific (M. B.) Examination unless they shall have previously passed the Matriculation Examination."

ORDERED—

To be recorded.

170. Read an application from Mr. J. S. Gloria an undergraduate of the Madras University and Head Master of the Hyderabad College praying that he may be permitted to go in for the B. A. Examination of this University.

ORDERED—

That the Registrar inform Mr. Gloria that the Syndicate do not think it expedient to recommend to the Senate that he should be admitted to the B. A. Examination of this University.

171. Read a letter from the Examiners in Law recommending that the gold medal be awarded to Digambar Chattopadhyay.

RESOLVED—

That the medal be awarded to Digamber Chatterjee.

172. The Registrar submitted the reports of the various Boards of Studies for the Examinations in Arts.

ORDERED—

That the Report be circulated to the members of the Syndicate.

173. The Registrar enquired whether the Cobden Medal should be awarded to the candidate who at the Examination for Honours in History and Political Economy obtained the highest marks in Political Economy, his having failed in the general Examination, not being taken into consideration.

ORDERED—

That the Regulations regarding the award of the medal be circulated among the members of the Syndicate and printed in the Calendar.

174. Read an application from Mr. De Soyza praying that the Prince of Wales College, Moratuwa, Ceylon, may be affiliated to the University of Calcutta up to the F. A. Standard with effect from the 1st of January 1882.

ORDERED—

That the application be referred to the Government of Ceylon for an expression of opinion as to desirability of affiliating the Prince of Wales College, Moratuwa.

175. Read a letter from the D. P. I. British Burmah recommending that Moulmein and Akyab be made centres for holding the Entrance Examinations of this University.

ORDERED—

That Moulmein and Akyab be added to the list of centres for the Entrance Examination.

176. Read a letter from Dr. G. King suggesting that the subject of "Geographical distribution of plants and Paleobotany" be added to the list of the Botanical Course for the B. A. Examination.

ORDERED—

That the Registrar inform Dr. G. King that the Course having received the sanction of Government, the matter has passed out of the control of the Syndicate.

177. Mr. A. W. Croft and the Rev. J. Robertson were appointed Moderators for the year 1882-83.

178. Read a letter from the Under-Secretary to the Government of India, Home Department, sanctioning the affiliation to the University in Law of the Metropolitan Institution with effect from the 1st of January 1882.

ORDERED—

To be recorded.

179. The Registrar submitted the Budget for 1882-83.

ORDERED—

To be recorded.

180. The following contingent bills were passed :—

1	Bill Mr. A. M. Nash for tabulating the marks, Rs.	400	0	0
1	„ Rev. W. Hastie for Superintending the Entrance and F. A. Examinations at the General Assembly's Institution,	200	0	0
1	„ Municipal Corporation House Rate 4th Quarter 1881, ...	112	8	0
1	„ Water, Police, and Lighting 1st Quarter 1882,	112	8	0
1	„ Collector of Stamps for Service labels, ...	100	0	0
	Examination expenses incurred during the Examination held at Kattak, ...	33	4	9
	Ditto ditto Dhubri, ...	27	8	6
	Ditto ditto Bhagalpur, ...	75	8	9
	Ditto ditto Rajshahye, ...	73	3	9
	Ditto ditto Midnapur, ...	30	13	9
	Ditto ditto Indore, ...	40	8	9
	Ditto ditto Sylhet, ...	17	15	6
	Ditto ditto Agra, ...	202	9	6
	Carried forward, ..	1,426	9	3

	Brought forward, ..	1,426	9	3			
1	Bill Conveyance hire to teachers for Superintending the Examinations,	304	0	0			
1	„ Babu Dinabandhu Mukerjea, for fencing the North Veranda,	9	0	0			
	Messrs. Newman and Co,	37	0	0			
1	„ Telegrams to Rangoon,	7	0	0			
1	„ K N. Roy for printing Examination papers,	9	0	0			
1	„ Garry hire to Clerk on duty,	28	0	0			
1	„ Messrs. Harman and Co., for Safe Custody of Gowns,	50	0	0			
1	„ Messrs. Llewelyn and Co., conveying lettering and setting the bust of Sir Cecil Beadon,	81	12	0			
1	„ Superintendent B. M Press for printing Job works,	456	9	0			
1	„ Messrs. Thacker, Spink and Co., Prize Accounts,	200	0	0			
1	„ for Whitewashing the Walls, Scouring the Hall, Varnishing the Dais,	76	0	0			
1	„ Coolies for arranging the Seats for Convocation,	11	12	0			
1	„ for Superintending the Medical Examinations,	18	0	0			
1	„ Lithographing Examination papers,	8	0	0			
	Sundries,	4	10	6			
					2,727	4	9
	REMUNERATION.						
1	„ Dr. Förchhammer for conducting the Examination in Pali for 1881 and 1882,	....			100	0	0
	Account Tagore Fund.						
1	Bill Madras Mail for Advertisement,	10	2	6			
1	„ Bombay Gazette Ditto,	13	8	6			
1	„ Indian Mirror Ditto,	3	6	0			
1	„ Daily News Ditto,	6	12	0			
					34	7	0
	Account Library Fund.						
1	Bill Balmer, Lawrie and Co.,	4	0	0			
					4	0	0
				Total Rs., ...	2,865	11	9

G. BELLETT,
Offg. Registrar.

(Confirmed.)
A. WILSON,
Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 12.

THE 18TH APRIL.

(In Circulation.)

181. Read an application from the Director of Public Instruction, North-Western Provinces and Oudh, praying that the Government High School, Fyzabad, be affiliated up to the F. A. Standard with effect from the 1st of January 1882.

RESOLVED—

That an application be made to the Governor-General in Council requesting him to sanction the affiliation of the Government High School, Fyzabad, to the University up to the Standard for the First Examination in Arts with effect from the 1st of January 1882.

G. BELLETT,
Offg. Registrar.

(Confirmed.)
A. WILSON,
Vice-Chancellor.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1881-82.

No. 13.

THE 24TH APRIL.

(In Circulation.)

182. The Registrar submitted a second time the accounts of the University for the year 1881-82.

RESOLVED—

That out of the balance of Rs. 8,176-8-10 rupees 540 (three months' pay) be granted to the Head Clerk as an addition to his salary, and Rs. 150 to the 2nd Clerk.

G. BELLETT,
Offg. Registrar.

(Confirmed),
A. WILSON,
Vice-Chancellor.

MINUTES

OF THE

FACULTY OF ENGINEERING

FOR THE YEAR 1881-82.

No. 6.

THE 27TH APRIL.

Present:

H. LEVINGE, ESQ., *President, in the Chair.*

H B. MEDLICOTT, ESQ. | JOHN ELIOT, ESQ.
A. W. CROFT, ESQ. | J. S. SLATER, ESQ.

COL. S. T. TREVOR.

183. The Faculty met to consider the desirability of substituting for two degrees and two licences, one degree and one licence with two branches after the Analogy of the degrees in Arts.

RESOLVED—

That the Faculty accept the suggestion of the Syndicate that there be one degree of Bachelor of Engineering and one Licence in Engineering in substitution for two degrees and two licences; with the Proviso that the certificate of passing either Examination should state whether the candidate has passed in the Civil or the Mechanical Branch.

G. BELLETT,
Offg. Registrar.

(Confirmed.)
H. C. LEVINGE.
President.

REPORT OF THE SYNDICATE FOR THE YEAR 1881-82.

The usual Examinations have been held during the year in Arts, Law, Medicine, and Engineering; and a tabular statement is appended, shewing the results and affording a comparison with the results of previous years. The total number of candidates who appeared at this year's Examinations was 4,556, against 4,402 in the previous year.

Entrance Examination.

The number of candidates registered for the Entrance Examination was 2,937, of whom 1,409 passed, 1,473 failed, and 55 were absent. Of the successful candidates, 210 were placed in the First Division, 704 in the Second, and 495 in the Third. Of the 1,473 candidates who failed, 1124 were rejected in English, 672 in the Second Languages, 604 in History and Geography, and 870 in Mathematics. The number of candidates was greater by 144 than in the previous year. The result of the examination shews a decrease in the percentage of passed candidates as compared with 1880. The number passed in 1880 was about 59 per cent., whereas in 1881 under 48 per cent. passed.

The following table shews the number of candidates that came up from each province, the number passed, and the percentage of successful candidates for the years 1880 and 1881:—

ENTRANCE EXAMINATION.

	1880.			1881.		
	Number of candidates	Number passed.	Percentage.	Number of candidates.	Number passed.	Percentage.
Bengal	2,031	1,184	58·29	2,105	1,026	48·74
Assam	46	34	73·91	51	24	47·05
North-Western Provinces ..	313	199	63·57	330	141	42 72
Rajputana	11	7	63 63	10	6	60·
Jaypur	7	7	cent. per cent.	11	6	54·54
Panjab	94	62	65·95	118	54	45·76
Central Provinces ..	103	60	58·25	102	58	56·86
Central India States ..	34	17	50	32	13	40·62
Oudh	114	71	62·28	113	49	43 36
British Burmah	12	6	50	23	12	52·17
Ceylon	28	19	67 85	42	20	47·61
Total ..	2,793	1,666	59·64	2,937	1,409	47·97

The number of candidates who failed in one subject only is subjoined.

English..	205
Second Languages	56
History and Geography	22
Mathematics	106

The following is a classification of the candidates according to the stations at which they were examined and the second languages they took up :—

	Number of candidates.	Latin.	Sanskrit.	Arabic.	Persian.	Urdu.	Hindi.	Bengali.	Uriya.	Burmese.	Armenian.
BENGAL.											
Calcutta ..	903	73	687	1	25	4	...	103	...	1	9
Hughli ..	247	...	188	1	7	1	...	50	...	...	...
Dacca ..	266	...	202	1	12	...	...	51	..	...	...
Krishnaghar ..	143	...	108	...	...	...	...	35	...	...	...
Berhampur ..	48	...	40	...	1	...	...	7	...	...	...
Patna ..	178	...	40	21	43	43	30	1	...	...	...
Bhagalpur ..	48	...	30	...	8	1	4	5	...	...	...
Bankura ..	74	...	37	...	...	..	...	37	...	...	...
Midnapur ..	34	..	17	...	1	...	...	10	6	...	...
Katak ..	24	2	14	...	1	...	...	...	7	...	...
Barisal ..	30	...	25	...	1	...	...	4	...	...	...
Darjeeling ..	14	14	...	...	...	.	...	...	..	...	...
Ranchi ..	18	...	10	...	...	...	3	5	...	...	...
Chittagong ..	20	...	19	...	1	...	...	...	...	..	...
Baulia ..	45	...	42	...	...	...	...	3	...	...	...
RAJPUTANA.											
Ajmere ...	12	...	3	...	6	2	1	...	...	...	...
ASSAM.											
Sylhet ...	21	...	15	...	1	...	...	5	..	...	...
Sibsagar ...	9	...	2	...	...	...	...	7	...	...	...
Gauhati ...	15	...	9	...	...	..	...	6	...	...	...
Dhubri ...	18	...	10	...	..	...	...	8	..	...	...
N. W. PROVINCES.											
Allahabad ...	92	6	27	2	41	12	4	...	...	...	...
Agra ...	81	2	22	1	49	4	3	...	...	..	...
Benares ...	99	1	33	2	45	8	6	4	..	...	...
Bareilly ...	38	3	8	...	27	...	...	...	...	...	...
Mussoorie ..	17	16	...	...	1	..	...	...	...	...	...
Dehra ...	1	..	...	...	1	...	...	...	...	...	...

PANJAB.

	Number of candidates.	Latin.	Sanskrit.	Arabic.	Persian.	Urdu.	Hindi.	Bengali.	Uriya.	Burmese.	Armenian.
Delhi ...	31	...	2	...	27	2	...	...	...	...	...
Lahore ...	92	1	20	2	64	5	...	...	..	...	...
Simla ...	6	6	...	...	...	...	...	...	...	...	...
Peshawar ...	1	...	..	...	1	...	...	...	...	...	...

OUDH.

Lucknow ...	117	21	16	4	44	28	4	...	...	...	...

CENTRAL PROVINCES.

Nagpur ...	59	14	43	...	...	2	...	...	...	...	...
Jabalpur ...	41	...	24	..	16	...	1	...	...	...	...
Sambalpur ...	2	...	...	...	...	...	...	...	2	...	...

CEYLON.

Colombo ...	36	36	...	...	...	...	...	...	...	...	...
Kandy ...	6	6	...	...	...	...	...	...	...	...	...

BRITISH BURMAH.

Rangoon ...	23	4	..	...	...	...	...	...	...	19	...

CENTRAL INDIA STATES.

Indore ...	25	...	13	...	9	...	3	...	...	...	...
Nowgong ...	3	...	1	...	2	...	...	...	...	...	...

The division in which the successful candidates from each province were placed, and the religions professed are shewn in the following tables :—

PROVINCES.

	Number of candidates.	Number Passed.			
		First Division.	Second Division	Third Division.	Total.
Bengal	2105	155	505	366	1026
Assam	51	3	10	11	24
N. W. Provinces	330	20	77	44	141
Rajputana	10	1	3	2	6
Jaypur	11	1	2	3	6
Panjab	118	11	32	11	54
Central Provinces	102	3	24	31	58
Central India States ...	32	2	8	3	13
Oudh	113	5	25	19	49
British Burmah	23	2	8	2	12
Ceylon	42	7	10	3	20
Total ...	2937	210	704	495	1409

RELIGION.

BENGAL.

Hindus	1866	134	437	339	910
Mahomedans	100	5	17	13	35
Christians	118	13	41	12	66
Others	21	3	10	2	15
Total ...	2105	155	505	366	1026

ASSAM.

Hindus	43	3	8	7	18
Mahomedans	4	...	...	2	2
Christians	1	...	1	...	1
Others	3	...	1	2	3
Total ..	51	3	10	11	24

N. W. PROVINCES.

Hindus	249	10	53	35	98
Mahomedans	34	...	10	4	14
Christians	42	10	14	4	28
Others	5	...	...	1	1
Total ..	330	20	77	44	141

RAJPUTANA.

	Number of candidates.	Number passed.			
		First Division.	Second Division.	Third Division.	Total.
Hindus	10	1	3	2	6
Total ..	10	1	3	2	6

JAYPUR.

Hindus	9	1	2	2	5
Christians	1	...	...	...	...
Others	1	...	...	1	1
Total ...	11	1	2	3	6

PANJAB.

Hindus	85	8	21	9	38
Mahomedans	17	...	5	..	5
Christians	12	2	5	2	9
Others	4	1	1	..	2
Total ..	118	11	32	11	54

CENTRAL PROVINCES.

Hindus	81	1	20	25	46
Mahomedans	7	1	3	1	5
Christians	14	1	1	5	7
Total ..	102	3	24	31	58

CENTRAL INDIA STATES.

Hindus	29	2	7	3	12
Mahomedans	2	..	1	..	1
Christians	1	..	..	..	..
Total ..	32	2	8	3	13

OUDH.

	Number of candidates.	Number passed.			
		First Division.	Second Division.	Third Division.	Total.
Hindus	83	3	17	15	35
Mahomedans	13	1	3	1	5
Christians	17	1	5	3	9
Total ...	113	5	25	19	49
BRITISH BURMAH.					
Mahomedans	1	...	...	...	...
Christians	7	1	2	1	4
Others	15	1	6	1	8
Total ...	23	2	8	2	12
CEYLON.					
Hindus	2	1	...	...	1
Mahomedans	1	...	...	...	...
Christians	32	6	7	2	15
Others	7	...	3	1	4
Total ...	42	7	10	3	20

The following Statement shews the number of unsuccessful candidates of previous years, that came up from each province and the number passed:

	Number of candidates.	Number passed.				Percentage.
		First Division.	Second Division.	Third Division.	Total.	
Bengal ...	470	8	96	95	199	42·34
Assam ...	9	...	2	4	6	66·66
N. W. Provinces ...	83	...	25	15	40	48·19
Rajputana ...	1	...	...	...	...	...
British Burmah ...	2	1	1	...	2	Cent per cent.
Central Provinces...	22	...	3	8	11	50·
Central India States	9	...	2	1	3	33·33
Oudh ...	26	1	6	5	12	46·15
Panjab ...	8	...	...	1	1	12·5
Ceylon ...	5	...	1	2	3	60·
Total, ...	635	10	136	131	277	43·62

First Examination in Arts.

The number of candidates registered for the first Examination in Arts was 968, of whom 364 passed, 576 failed, and 28 were absent. Of the successful candidates, 48 were placed in the First Division, 140 in the Second, and 176 in the Third. Of the 576 candidates who failed, 417 were rejected in English, 320 in the Second Languages, 212 in History, 381 in Mathematics, 255 in Logic, and 1 in Chemistry.

A comparative statement of the number of candidates, the number passed, and the percentage of passed candidates from each province for the years 1880 and 1881, is subjoined :—

FIRST ARTS EXAMINATION.

	1880.			1881.		
	Number of candidates.	Number passed.	Per-centage.	Number of candidates.	Number passed.	Per-centage.
Bengal	840	320	38·09	833	295	35·41
N. W. Provinces .	60	34	56 66	57	29	50 86
Jaypur	4	3	75	7	1	14 28
Panjab	12	7	58·33	10	8	80
Central Provinces ...	22	17	77·27	18	11	61·11
Rajputna	2	2	100	...	...	...
Central India States	2	...	...	...	...	...
Oudh	32	14	43·75	29	15	51·72
Ceylon	7	1	14·28	13	4	30·76
Assam	1	...	...	...	...	...
British Burmah ...	1	...	...	1	1	100
Total ...	983	398	40·48	968	364	37 60

The following is a statement of the number of candidates who failed in one subject only :—

English	37
Second Languages	16
History	2
Mathematics	33
Logic	7

A classification of the candidates according to the second languages and alternative subjects they took up gives the following results :—

	Number of candidates.	Latin.	Arabic.	Persian.	Pali.	Sanskrit.	Psychology.	Chemistry.
BENGAL.								
Calcutta ...	542	30	1	9	...	502	325	217
Hughli ...	54	...	3	1	...	50	4	50
Dacca ...	90	...	...	4	...	86	41	49
Krishnagar ...	23	...	...	...	...	23	2	21
Berhampur ...	12	...	...	...	...	12	1	11
Patna ..	62	...	11	24	...	27	3	59
Katak ...	8	...	...	1	...	7	...	8
Chittagong ...	10	...	...	1	...	9	9	1
Midnapur ...	8	...	...	...	...	8	7	1
Baulia ...	24	...	...	...	...	24	...	24
N. W. PROVINCES.								
Benares ...	22	...	...	9	...	13	12	10
Allahabad ...	10	...	1	4	...	5	...	10
Agra ...	29	...	1	20	...	8	28	1
Mussoorie ...	1	1	...	...	...	...	1	...
OUDH.								
Lucknow ..	29	...	...	19	...	10	2	27
PANJAB.								
Lahore ...	12	1	3	8	...	...	11	1
CENTRAL PROVINCES.								
Jabalpur ...	18	...	...	5	...	13	...	18
CEYLON.								
Colombo ...	13	12	...	...	...	1	11	2
BRITISH BURMAH.								
Rangoon ...	1	...	...	...	1	...	1	...

The following tables shew the divisions in which the successful candidates from each province passed and the religions professed.

PROVINCE.

	Number of candidates.	Number passed.			
		First Division.	Second Division.	Third Division.	Total.
Bengal	833	42	101	152	295
N. W. Provinces	57	2	18	9	29
Jaypur	7	...	...	1	1
Panjab	10	1	6	1	8
Central Provinces... ...	18	...	7	4	11
Oudh	29	2	6	7	15
Ceylon	13	...	2	2	4
British Burmah	1	1	...	..	1
Total, ...	968	48	140	176	364

RELIGION.

BENGAL.

Hindus	772	35	91	143	269
Mahomedans	30	5	4	3	12
Christians	15	1	5	1	7
Others	16	1	1	5	7
Total, ...	833	42	101	152	295

N. W. PROVINCES.

Hindus	48	2	14	7	23
Mahomedans	6	...	1	2	3
Christians	1	...	1	..	1
Others	2	..	2	..	2
Total ...	57	2	18	9	29

JAYPUR.

Hindus	5	...	...	1	1
Others	2	...	...	...	...
Total ...	7	...	...	1	1

PANJAB.

	Number of candidates.	Number passed.			
		First Division.	Second Division.	Third Division.	Total.
Hindus	6	1	3	1	5
Mahomedans	3	...	2	...	2
Christians	1	...	1	...	1
Total ...	10	1	6	1	8

CENTRAL PROVINCES.

Hindus	16	...	5	4	9
Mahomedans	1	...	1	...	1
Christians	1	...	1	...	1
Total ...	18	...	7	4	11

OUDH.

Hindus	24	...	5	7	12
Mahomedans	3	...	1	...	1
Christians	2	2	...	...	2
Total ...	29	2	6	7	15

CEYLON.

Christians	13	...	2	2	4
Total ...	13	...	2	2	4

BRITISH BURMAH.

Others	1	1	...	...	1

The following statement shews the number of unsuccessful candidates of previous years that came up from each province and the number passed :—

	Number of candidates.	Passed in				Percentage.
		First Division	Second Division	Third Division.	Total.	
Bengal ...	298	...	21	53	74	24 85
N.-W. Provinces...	16	...	4	1	5	31·25
Oudh	12	...	3	3	6	50
Central Provinces	2	...	...	1	1	50
Jaypur ...	1	...	...	...	...	...
Panjab ...	2	...	1	...	1	50
Ceylon ...	5	...	.	1	1	20
Total ...	336	...	29	59	88	26 19

B. A. Degree Examination.

The number of candidates registered for this examination was 358, being 6 in excess of the number in the previous year; and of these, 194 took up the A Course, against 144 in 1881, and 164 took up the B Course, against 208 in 1881.

Of the 194 candidates in the A Course 44 or a little over 22 per cent., were successful; 143, or about 73 per cent. failed, and 7 were absent. Of the successful candidates, 5 were placed in the first division, 16 in the second, and 23 in the third.

Of the 164 candidates in the B Course, 61, or 37 per cent. were successful. Of these, 14 were placed in the First division, 33 in the Second, and 14 in the Third.

In the whole examination, 105, or a little over 29 per cent. passed, against 44 per cent. in the previous year.

Of the 242 candidates who failed, 133 were rejected in English, 184 in Mathematics, 38 in the Second Languages, 12 in History, 19 in Philosophy, 11 in Optional Mathematics, 19 in Chemistry, 11 in Physical Geography, 59 in Physics, 2 in Zoology, 4 in Botany and 1 in Geology.

The following is a statement of the number of candidates who failed in one subject only :—

English	20	Physics ...	21
Mathematics	55	Optional Mathematics ...	2
Second Languages ...	3		

The following tables shew (1) the number of candidates from each province who took up the A and B Courses respectively, (2) the second languages and the optional subjects in Philosophy and History taken up by the A candidates, (3) the different branches of science taken up by the B candidates, and (4) the classes in which the successful candidates were placed :—

B. A. EXAMINATION.

A. COURSE.

	Number of candidates.	Latin.	Sanskrit.	Arabic.	Persian.	Philosophy.			History.			Optional Mathematics.	Passed.			
						Moral Philosophy.	Butler.	Logic.	Arnold.	Mill.	Jewish History.		1st. Divn.	2nd. Divn.	3rd. Divn.	Total.
Bengal ..	184	9	171	1	3	5	50	150	55	14	73	21	5	15	22	42
N. W. Provinces .	6	..	6	...	...	...	2	4	3	...	2	1	..	..	..	..
Panjab ..	3	..	2	.	1	...	..	3	...	...	3	...	...	1	1	2
Oudh ..	1	..	...	.	1	...	1	...	...		1	...	...	...	..	..
Total ..	194	9	179	1	5	5	53	157	58	14	79	22	5	16	23	44

B. A. EXAMINATION.

B. COURSE.

	Number of candidates.	Physics.	Zoology.	Botany.	Geology.	PASSED IN THE			
						First Division	Second Division.	Third Division.	Total.
Bengal	125	84	2	39	...	11	32	10	53
N. W. Provinces ..	24	22	1	...	1	1	1	3	5
Panjab	5	1	1	...	3	...	...	...	...
Oudh	10	9	1	...	...	2	...	1	3
Total ..	164	116	5	39	4	14	33	14	61

The following is a comparative statement of the total number of candidates, the number passed and the percentage of successful candidates from each province for the years 1881 and 1882 :—

B. A. EXAMINATION.

	1881.			1882.		
	Number of candidates.	Number passed.	Percentage.	Number of candidates.	Number passed.	Percentage.
Bengal	295	126	42·71	309	95	30·74
N.-W. Provinces	34	16	47·05	30	5	16·66
Panjab	9	6	66·66	8	2	25·
Oudh	13	7	53·84	11	3	27·27
Ceylon	1	...	...	...	...	...
Total ..	352	155	44·03	358	105	29·32

The divisions in which the candidates from each province passed and the religions professed are shown in the following tables :—

PROVINCES.

	Number of candidates.	Number passed			
		First Division.	Second Division.	Third Division	Total.
Bengal	309	16	47	32	95
N.-W. Provinces ..	30	1	1	3	5
Panjab	8	..	1	1	2
Oudh	11	2	...	1	3
Total ..	358	19	49	37	105

RELIGION.

BENGAL.

Hindus	288	16	44	30	90
Mahomedans	9	...	...	...	...
Christians	7	...	1	..	1
Others	5	...	2	2	4
Total ..	309	16	47	32	95

N.-W. PROVINCES.

Hindus	28	1	1	3	5
Christians	1	...	...	...	...
Others	1	...	...	...	...
Total ..	30	1	1	3	5

PANJAB.

Hindus	6	...	...	1	1
Mahomedans	1	...	1	...	1
Christians	1	...	...	...	...
Total ..	8	...	1	1	2

OUDH.

Hindus	11	2	...	1	3

The following statement shews the number of unsuccessful candidates of previous years that came up from each province and the number passed :—

B. A. EXAMINATION.

A. Course.

	Number of candidates.	Number passed.				Percentage.
		First Division.	Second Division	Third Division.	Total.	
Bengal ..	70	...	4	8	12	17·14
N.-W. Provinces..	1	...	...	...	...	...
Oudh ..	1	...	...	...	...	...
Total ..	72	...	4	8	12	16·11

B. Course.

Bengal ..	48	3	9	4	16	33·33
N.-W. Provinces..	7	...	...	...	...	...
Panjab ..	4	...	...	...	..	...
Oudh.. ..	4	...	...	1	1	25·
Total ..	63	3	9	5	17	26·99

M. A. Examination.

There were 54 candidates for honours in Arts, of whom 25 were successful—6 being placed in the First Class, 15 in the Second, and 4 in the Third. For the degree of M. A. there were 25 candidates, of whom 7 were successful. The 6 candidates for Honours who were placed in the First Class passed in English, Arabic and Physical Science. Gold and Silver Medals were awarded together with a prize of books in each case.

The institutions from which the candidates came up, the subjects of examination, and the number passed, are shewn in the following tables :—

HONORS IN ARTS.

	English.		Sanskrit.		Arabic.		History.		Mathematics.		Philosophy.		Physical Science.	
	Number of candidates	Number passed.	Number of candidates.	Number passed.	Number of candidates	Number passed.	Number of candidates.	Number passed.	Number of candidates.	Number passed.	Number of candidates.	Number passed.	Number of candidates.	Number passed.
Cathedral M. College ...	...	..	...	...	...	..	..	...	...	...	...	...	1	...
Dacca College ...	...	...	...	...	...	...	2	2	.	...	...	...	2	...
Free Church Institution	3	2	...	...	...	...	...	...	...	...	1	...	...	...
General Assembly's Institution ...	3	1	...	...	...	...	...	...	.	...	...	...	...	...
Hughli College ...	5	3	...	...	...	..	...	.	...	..	...	...	1	1
Krishnaghar College ...	1	...	...	...	...	...	...	...	..	...	...	...	...	...
Lahore College ...	...	...	...	...	...	..	1	1	...	...	...	...	1	1
Muir Central College ...	...	...	...	.	1	1	...	...	...	...	...	...	4	3
Patna College ...	...		..	..	.	...	...	...	...	...	...	...	2	1
Presidency College ...	5	3	...	...	...	...	3	.	8	3	..	...	8	2
Sanskrit College ...	...	...	2	1	...	...	..	...	...	..	...	...	...	...
Total ...	17	9	2	1	1	1	6	3	8	3	1	...	19	8

M. A.

	English.		Sanskrit.		History.		Mathematics.		Philosophy.		Physical Science.	
	Number of candidates.	Number passed.	Number of candidates.	Number passed.	Number of candidates.	Number passed.	Number of candidates.	Number passed.	Number of candidates.	Number passed.	Number of candidates.	Number passed.
Benares College ..	...	...	.	...	...	...	...	...	...	...	1	...
Canning College	...	...	...	...	.	...	1	...	...	...	...	...
Dacca College	...	...	...	...	1	1	...	...	...	...	...	...
Free Church Institution ...	1	...	...	...	...	...	...	...	...	...	...	...
General Assembly's Institution ...	4	1	...	...	2	...	..	...	..	...	...	...
Hughli College ..	1	—	...	...	...	...	...	...	...	...	...	...
Krishnaghar Coll.	...	...	...	..	1	...	...	...	...	...	..	...
Metropolitan Institution ...	1	...	...	..	...	...	...	...	...	...	...	...
Presidency College	4	1	...	...	...	...	1	...	1	...	.	...
Sanskrit College ...	...	...	3	3	...	...	...	...	...	...	...	...
Teacher ...	1	...	1	1	...	...	...	...	...	...	1	...
Total ..	12	2	4	4	4	1	2	...	1	...	2	...

Law Examination.

For the degree of B. L. there were 109 candidates, of whom 2 passed in the first class and 67 in the second. The colleges from which they passed are shewn in the following table :—

Names of Institutions.	Number of candidates.	Number passed.	
		First Division.	Second Division.
Canning College, Lucknow ..	3	...	...
Dacca College	10	...	6
Hugli College	11	...	7
Krishnaghar College	3	...	1
Muir Central College	3	...	2
Patna College	6	...	5
Presidency College	73	2	46
Total ..	109	2	67

Examination in Medicine.

For the First M. B. Examination 38 candidates were registered, and of these 3 passed in the First Division and 9 in the Second.

For the First L. M. S. Examination there were 3 candidates of whom none passed.

For the Second M. B. Examination there were 31 candidates, of whom 10 passed in the Second Division.

For the Second L. M. S. Examination there were 21 candidates of whom 10 passed.

Examination in Engineering.

There were 12 candidates for the Licence in Civil Engineering, of whom 6 passed in the Second Division.

Premchand-Roychand studentship.

Applications for permission to appear at this examination were received from 6 candidates, of whom 4 presented themselves for examination. On the result of the examination a studentship of Rs. 1,600 a year for five years was awarded to Asutosh Gupta, M. A.

Tagore Law Professorship.

For the Tagore Law Professorship, vacated by the retirement of Mr. W. F. Agnew, eight candidates presented themselves. At a meeting of the Senate, held on the 26th of March 1881, Babu Upendranath Mitra, B. L. was elected Tagore Professor of Law for the term of one year from the 1st of September 1881. The subject which the Professor has selected for his lectures is the Law of Limitation and Prescription in British India including Easements.

The following gentlemen have been appointed Fellows of the University by His Excellency the Governor-General in Council.

The Hon'ble W. Tyrrell, C. S.
C. P. Carmichael, Esq., C. S.
B. W. Colvin, Esq., C. S.
C. Robertson, Esq., C. S.
The Venerable Archdeacon Baly.
Surgeon Major J. M. Coates, M. D.
The Very Rev. Father D. Van Impe, SJ.
Babu Hemchunder Banerjee, B. L.
Muhammad Yousuff, B. L.
W. D. Bruce, Esq., C. E.
W. T. Webb, Esq.
J. S. Slater, Esq.
J. Wilson, Esq.
Babu Radhikaprasad Mukerjee.
L. Schwendler, Esq.

Babu Lalmadhab Mukerjee.
The Hon'ble L. R. Tottenham, C. S.
The Hon'ble Franklin Prestage.
The Hon'ble Kristodas Pal, C I. E.
The Right Rev. P. G. Bigandet, D. D.
Col. S. T. Trevor, R. E.
D. O. C. Raye, Esq. M. D.
E. A. Birch, Esq., M. D.
G. Bellott, Esq., M. A.
S F Downing, Esq. B. A.
J. Willson, Esq., M. A.
Syud Ameer Hossein.

University Library.

A large collection of English classics formerly ordered, have arrived.

Bust of Sir Cecil Beadon.

The bust of the late Sir Cecil Beadon has been put up in the vestibule of the Senate House, and the cost of the pedestal and other incidental charges have been borne by the University.

Bust of James Sutcliffe.

The bust of the late Mr. Sutcliffe, presented to the University by the subscribers to the Sutcliffe Memorial Fund, has been placed in the vestibule of the Senate House.

The following institutions have been affiliated in Arts and Law during the year :—

In Arts.

Albert College, Calcutta, ... Maharaja's High School, Burdwan, ...	Up to the First Arts standard.

In Law.

Metropolitan Institution.

Changes in the Regulations.

The following changes in the Regulations in Arts, and Medicine having been sanctioned by the Senate and approved by His Excellency the Governor-General of India in Council.

For the Regulations for the First Examination in Arts, for the degree of Bachelor of Arts, for Honours in Arts, and for the degree of M. A., the following Regulations have been substituted, with effect, as regards the First Examination in Arts, from the 1st of January 1884, and as regards the B. A. and M. A. Examinations, from the 1st of January 1885.

FIRST EXAMINATION IN ARTS.

1. The First Examination in Arts shall commence annually at such time as the Syndicate shall determine, (the date to be approximately notified in the Calendar for the

year), and shall be held in Calcutta and in such other places* as shall from time to time be appointed by the Syndicate.

2. Any undergraduate of the University may be admitted to this Examination, provided he has prosecuted a regular course of study in any affiliated institution for not less than two academical years after passing the Entrance Examination.†

3. Every candidate for admission shall send his application with a certificate in the form entered in Appendix A, either to the Registrar or to a local officer recognised by the Syndicate. Every such application must reach the office of the Registrar at least thirty days before the date fixed for the commencement of the Examination.

4. A fee of twenty rupees shall be payable by each candidate. No candidate shall be admitted, unless he shall have paid this fee to the Registrar or to the local officer recognised by the Syndicate. A candidate who fails to pass or to present himself for examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to any one or more subsequent First Examinations in Arts on payment of a like fee of twenty rupees on each occasion, provided he produces a certificate from the head of an affiliated institution showing that he has prosecuted a regular course of study for six months since the date of the last examination to which he was admitted.

5. The First Examination in Arts shall be conducted by means of printed papers, the same papers being used at every place at which the Examination is held.

6. At such time as the Syndicate shall determine (the date to be approximately notified in the Calendar for the year), the Syndicate shall publish a list of the candidates who have passed, arranged in three divisions, the first in order of merit, and the second and third in alphabetical order. Every candidate shall on passing receive a certificate in the form entered in Appendix A.

7. At the First Examination in Arts every candidate

* The following places have already been appointed :—
Hughli, Berhampore, Krishnaghar, Dacca, Patna, Benares, Agra, Delhi, Bareilly, Ajmere, Lahore, Lucknow, Colombo, Simla, Darjeeling, Sehore, Allahabad, Mussoorie, Cuttack, Chittagong, Jubbulpore, Batticaloa, Indore, Midnapore, Rampore Baulia, Nowgong, Rangoon, Nagpur.

† The Syndicate have power to make exceptions to this rule in favour of Deputy Inspectors of Schools and Schoolmasters.

shall be examined in the following subjects, and the number of papers in each shall be as follows :—

I —English	...	... Two papers.
II —A Second Language		... ,, ,,
III.—Mathematics	.	... ,, ,,
IV.—Elementary Physics		... ,, ,,
V.—History	...	... One paper.
VI.—Logic	...	... ,, ,,

I & II.—Languages.*

The Second language shall be one of the following languages :—

Greek.	Arabic.
Latin.	Persian.
Sanskrit.	Pali.
Hebrew.	

Any other classical language may be added to this list by the Syndicate. Sentences in each language in which the candidate is examined shall be given for translation into the other language.

The papers in each language shall include questions on Grammar and Idiom.

III.—Mathematics.

(a) *Arithmetic.*

(b) *Algebra.*—Quadratic equations; theory of quadratic equations and expressions; imaginary expressions; arithmetical, geometrical, and harmonical progressions; permutations and combinations; binomial and exponential theorems

(c) *Plane Geometry.*—Simple problems in the geometry of the straight line, triangle, and circle, treated according to modern methods. The more important properties of the parabola and ellipse.

(d) *Trigonometry.*—Methods of measuring angles.
Trigonometrical ratios, and the simple relations connecting them.
Relations between trigonometrical ratios of angles differing by multiples of right angles.
Trigonometrical transformations.
Solution of triangles.
Properties of triangles.
Area of a circle.

(e) *Logarithms.*—The properties of logarithms.
Logarithmic series.
The use of logarithmic tables.
Proportional parts.

IV.—Elementary Physics.

(a) *General Ideas*—
Units of measurement, and definitions of mass, force, motion.
Laws of motion.
Work and energy,—measurement of each.

* The text-books will be fixed from time to time by the Syndicate. *See* Appendix B.

Chief forces of nature.
General properties of solids, liquids, and gases.
Conditions of equilibrium of a mass acted on by forces.
Motions of translation and rotation.
Pressure of fluids and gases: measurement of pressure.
Equilibrium of floating bodies.
Specific gravity and its determination.
Motion of pendulum, and of the torsion pendulum or balance.

(b) Heat—
Laws of expansion of solids, liquids, and gases under heat.
Determination of co-efficients of expansion.
Measurement of temperature.
Maximum density of water.
Changes of molecular state, and latent heat of molecular changes of state.
Influence of change of pressure on the boiling point and melting point.
Regelation.
Laws of pressure of gases.
Elastic force of vapour; dew point, and its determination.
Formation of dew and clouds.
Radiation, conduction and convection of heat.
Phenomena of combustion
Steam engines.

(c) Light—
Laws of transmission of light and of its intensity.
Shadows.
Images produced by small apertures.
Photometry.
Reflection of light.
Refraction of light.
Images by reflection and refraction, and their position.
Critical angle.
Properties of prisms and lenses.
Telescope, microscope, spectroscope, the human eye.
Decomposition of light.

(d) Frictional Electricity—
Electrical attractions and repulsions.
Properties of conductors and non-conductors.
Electrical induction
Electrical force and density.
Electrical distribution on conductors.
Power of points.
Ramsden's and Armstrong's electrical machines.
Condenser; electrophorus; Leyden jar.
Electric discharges
Atmospheric electricity.

(e) Dynamic Electricity—
Voltaic pile, its modifications.
Effects of the current.
Electro-dynamics.
Electro-magnetism.
Voltaic induction.
Thermo-electricity.

V.—History.

The outlines of the History of Greece and Rome.

The historical questions shall include questions relating to the geography of the countries to which they refer.

The text-books will be fixed from time to time by the Syndicate. (*See* Appendix B.)

VI.—Logic.

Deductive Logic.

BACHELOR OF ARTS.

1. An Examination for the degree of Bachelor of Arts shall be held annually in Calcutta and Agra, and shall commence at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

2. Any undergraduate of the University may be admitted to the Examination, provided he has prosecuted a regular course of study in any affiliated institution for not less than two academical years after passing the First Examination in Arts.*

3. Any candidate may be examined either for a pass or for honours in any branch. A candidate who desires to be examined for honours in any branch, must take up instead of the pass subject the corresponding honour subject. A candidate who obtains honours in any branch will be considered to have also passed in that branch. Should a candidate not have deserved honours in any branch, the examiners shall be authorized to declare that he has passed in that branch, if they consider that his attainments come up to the pass standard.

4. Every candidate shall send his application, with a certificate in the form entered in Appendix A, to the Registrar at least thirty days before the date fixed for the commencement of the Examination. If he desires to be examined for honours, he shall state in his application the subject or subjects in which he desires to be so examined.

5. A fee of thirty rupees shall be payable by each candidate. No candidate shall be admitted to the axamination, unless he shall have paid this fee to the Registrar. A candidate who fails to pass or to present himself for examination shall not be entitled to claim a refund of the fee. A candidate may be admitted to one or more subsequent examinations for the degree of Bachelor of Arts on payment of a like fee of thirty rupees on each occasion, provided he produces a certificate from the head of an affiliated institution showing that he has prosecuted a regular course of study for six months since the date of the last Examination to which he was admitted.

* The Syndicate has power to make exceptions to this rule in favour of Deputy Inspectors of Schools and Schoolmasters.

6. The Examination for the degree of Bachelor of Arts shall be conducted by means of printed papers.

7. At such time as the Syndicate shall determine, (the date to be approximately notified in the Calendar for the year) the Syndicate shall publish a list of the candidates who have passed, arranged in alphabetical order, together with a list of those who have obtained honours in each branch, arranged in two divisions, both in order of merit. At the examination for the degree of Bachelor of Arts every candidate shall be examined in one or other of the two following courses marked A and B:

A.*

Pass Subjects.	*Corresponding Honour Subjects.*
I.—English.	I.—In addition to the pass subjects, a further course in English and the history of the English language and literature.
II.—Mental and Moral Science, *i. e.*, Psychology, including the Psychology of Ethics and the History of Moral Systems.	II.—In addition to the pass course, the History of Modern European Philosophy and either (*a*) Pure Logic, *or* (*b*) Natural Theology.
And one of the following—	
III.—A second language (defined as in F. A. course).	III.—In addition to the pass course, Comparative Grammar and either a second course in the classical language or a second classical language.
IV.—History of England and History either of India or of Greece and Rome. Elements of Political Economy.	IV.—History of England, India, Greece and Rome, a fuller course of Political Economy than the pass course, and Arnold's Lectures on Modern History, *or* Mill on Representative Government, *or* History of the Jews.
V.—Mathematics as in the B. Course.	V.—Mathematics as in the B. Honour Course.

B.†

Pass Subjects.	*Corresponding Honour Subjects.*
I.—English.	I.—In addition to the pass course, a course of prose works on scientific subjects.
II.—Mathematics. Statics. Dynamics. Hydrostatics.	II.—In addition to the pass course, Analytical Plane Geometry and the Differential and Integral Calculus as defined below.

* The text-books are fixed from time to time by the Syndicate. *See* Appendix B.

† The text-books are fixed from time to time by the Syndicate. *See* Appendix B.

And one of the following—

III.—Physics and the Elements of Chemistry as defined below.

IV.—Chemistry and the Elements of Physics as defined below.

V.—Physiology and either Botany or Zoology as defined below.

VI.—Geology and either Mineralogy or Physical Geography as defined below.

III.—The full course in Physics and Chemistry together with the Doctrine of Scientific Method.

IV.—The full course in Physics and Chemistry together with the Doctrine of Scientific Method.

V.—Physiology, Botany and Zoology, together with the Doctrine of Scientific Method.

VI.—Geology Mineralogy and Physical Geography together with the Doctrine of Scientific Method.

Definition of Subjects.

II.—*Mathematics.*

The pass subjects shall include—

(a) *Statics*—

Parallelogram and triangle of forces.
Resultant of parallel forces.
Couples.
Moments.
Equilibrium. Conditions of equilibrium of any forces acting on a particle or rigid body.
Centre of parallel forces.
Centre of gravity, or centroids.
Friction.
Simple cases of tension of strings.
Levers; pulley; wheel and axle; inclined plane; screw.
Virtual velocities.

(b) *Dynamics*—

Definition and measurement of mass, force, velocity, acceleration, momentum, work, and energy.
Laws of motion.
Uniform of motion.
Uniformly accelerated motion—
(1) In a straight line.
(2) In a parabola.
(3) In a circle.
Simple cases of impact.

(c) *Hydrostatics*—

The transmission and intensity of fluid pressure.
Determination of component and resultant fluid pressure in simple cases.
Centre of pressure.
Conditions of equilibrium of floating bodies.
Metacentre.
Properties of elastic fluids and determination of pressure.
Specific gravity, and the methods of determining it.
Measurement of heights by the barometer.
Mixture of gases.
Description of the barometer, air-pump, common and force pumps, the diving-bell, the balloon, siphon, and Bramah's press, as applications of hydrostatical principles.

The Honour subjects shall include—

(*a*) *Analytical Plane Geometry.*

Rectangular and polar co-ordinates.
Transformation of co-ordinates.
The straight line.
The circle.
The parabola.
The ellipse.
The hyperbola.
The general equation of the second degree.

(*b*) *Differential Calculus.*

Definition of differential co-efficients.
Differentiation of functions of a single variable.
Successive differentiation.
Taylor's and Maclaurin's theorems, and their simpler applications.
Evaluation of functions which assume an indeterminate form.
Differentiation of functions and implicit functions.
Maxima and minima values of functions of one variable.
Tangents, normals, asymptotes, curvature, singular points, evolutes, involutes.
Tracing of curves

(*c*) *Integral Calculus.*

Integration of simple functions of a single variable.
Integration of rational fractions.
Integration by formulæ of reduction.
Determination of lengths and areas of curves.

III, IV.—Physics and Chemistry.

The elements of Physics shall include the following considered with special reference to Chemistry :—

(*a*) *Heat*—

Heat of combustion, absolute thermal effects and pyrometric therma effects of chemical combination, theory of flame, theories of the source of light in luminous flames.

(*b*) *Light*—

Reflection and refraction, dispersion, spectrum analysis, chemistry of light, photography, fluorescence, double refraction and polarization, saccharimeters.

(*c*) *Magnetism*—

Magnetism, magnetic polarity, natural and artificial magnets, diamagnetism.

(*d*) *Electricity*—

Two kinds of electricity, insulators and conductors; sources of electricity, electricity developed by chemical action, voltaic electricity, various batteries, electrolysis, laws of electrolysis, electroplating, electro-gilding.

Physics shall include—

(*a*) *General Ideas*—

1.—Wave motion :—

Measurement of simple or harmonic wave motions.
Combination of wave motions.
Resolution of complex wave motions into simple or harmonic wave motions.

2.—Potential :—

Definition of potential.
Calculation of potential in simple cases.
Determination of force from potential.
Fundamental propositions respecting lines of force, equipotential surfaces, and tubes of force.

3.—Elasticity :—

Definition of elasticity.
Measurement of elasticity in the cases of solids, liquids and gases.
Distinction between, and determination of, elasticity of constant temperature and of constant entropy for gases.

(*b*) *Heat*—

In addition to a more thorough acquaintance with the subject than that required for the First Arts Examination and a greater power of working problems on heat, an elementary knowledge of the principles of thermo-dynamics will be required.

(*c*) *Light*—

In this subject, more difficult questions in the determination of foci, focal lengths, &c., will be required than for the First Arts Examination. Also the following :—

Spherical aberration.
Dispersion.
The formation of rainbows.

(*d*) *Frictional Electricity*—

This subject must now be taken up in connection with potential.

(*e*) *Sound*—

The laws of the production and propagation of sound determined experimentally.
Intensity, pitch, and quality of sounds.
The velocity of sound in air and other media : Doppler's principle.
Reflection and refraction of sound.
Measurement of sound vibrations and wave lengths of air.
Resonance.
Interference of sound waves. Beats.
Harmonic tones ; their generation and function in sound.
Longitudinal vibration of rods and of columns of air.
Transverse vibration of strings.
Formation of Chladni's figures.
Vibrations of tuning-forks and bells.
Nature of musical sounds.
Vocal organs of man.

(*f*) *Dynamical Electricity*—

Voltaic batteries as sources of electric currents.
Action of currents on magnetic needles. Galvanometers.
Thermo-electric currents.
Definition and measurement of electric force, conductivity, resistance, and current.

Ohm's law, and its simpler applications.
Laws of action of currents on currents, and their simpler applications.
Solenoids. Ampére's theory of magnetism.
Electro-magnets.
Mechanical, chemical, and heating effects of currents. Electrolysis.
Induced currents, their modes of generation and laws of action.
Ruhmkorff's coil.
Electro-magnetic currents.

Electro-magnetic machines; the more important details of the working of telegraphs.
Theories of electricity.

(*g*) *Magnetism*—

Properties of permanent and artificial magnets.
Magnetic induction.
Phenomena of terrestrial magnetism.
Determination of declination, dip, and intensity of the magnetic force of the earth.
The compass needle.
Determination of magnetic laws of action by the torsion balance.
Magnetic Potential.

(*h*) *Polarization of Light*—

Undulatory theory of light.
Reflection and refraction of light.
Prismatic analysis of light.
Achromatism.
Explanation of lines in the solar and other spectra.
Interference of light.
Diffraction of light.
Measurements of wave lengths of light.
Colours of thin plates.
Double refraction.
Polarization of light by reflection, refraction, and double refraction.
Interference of polarized light as shown by double refracting crystals. Polariscopes.
Elliptic and circular polarization.
Rotary polarization.

The Elements of Chemistry shall include :—

(*a*) The following general considerations:

Definition of Chemistry; differences between chemical action and the action of the phyiscal forces; simple and compound matter; different modes of chemical action; combining weights, volume weights; principles of chemical nomenclature, symbolic notation, graphic notation; chemical equations; atoms and molecules; general knowledge of atomicity of elements; simple and compound radicals; classification of elements.

(*b*) A fairly complete knowledge of the modes of occurrence, methods of preparation, properties, uses, and general characters of the following non-metallic elements, of their allotropic modifications, and of their principal and best known compounds:—

Hydrogen, fluorine, chlorine, bromine, iodine.
Oxygen (and ozone).
Boron.
Carbon, silicon.
Nitrogen, phosphorus, arsenic.
Sulphur.

(*c*) A general knowledge of:

The distinction between non-metals and metals.

Acids, bases, and salts.
The constitution of salts.
The principles of crystallography.

(*d*) A knowledge of the methods of preparation, properties, and uses of the following metals and their principal salts:—

Sodium, potassium, ammonium, silver.
Calcium (glass manufacture, &c.), magnesium, zinc, copper, mercury.
Gold.
Lead, tin, platinum, aluminium (porcelain, pottery, &c.)
Antimony, bismuth.
Chromium, manganese, iron.

Chemistry shall include, in addition to a fuller knowledge of the subjects specified under the head Elements of Chemistry—

Inorganic Chemistry—

(*a*) General considerations:

Laws of chemical combination, equivalents, atomic weights, physical and chemical relations of atomic weights, specific or atomic volumes, a more complete knowledge of the subject of atomicity; or quantivalence, artiads, perissads, &c ; variations of atomicity; absolute, latent, and active atomicity; relations between atomic weight and quantivalence, chemical affinity, influence of pressure on chemical action, relations of heat to chemical affinity, &c., physical properties of metals, chemical relations of metals, alloys, general characters and general methods of preparation of compounds of metals with non-metals, theory of normal, acid and basic, salts, isomorphism the principles of qualitative analysis.

(*b*) Study of the following elements:

Selenium, tellurium, lithium, cæsium, rubidium, barium, strontium, the earth metals, cadmium, indium, gallium, titanium, vanadium, uranium, tungsten, molybdinum, nickel, cobalt, and the platinum metals.

(*c*) A knowledge of the metods used in the preparation of the more important acids, salts, &c., employed in the arts and manufactures.

(*d*) A knowledge of metallurgical operations, such as are employed in the preparations of iron, zinc, copper, lead, tin, mercury, silver, and aluminium.

Organic Chemistry—

(*a*) The following general considerations:

Definition of organic bodies, synthesis from inorganic materials, decompositions and transformations of organic compounds, analysis of organic bodies.

Determination of the specific gravity of gases and vapours.

Determination of empirical, rational, and constitutional formulæ; theory of types, classification of organic compounds, organic series, constitutional formulæ of organic compounds.

(*b*) Isomerism, metamerism, and polymerism, physical properties of different compounds.

A knowledge of some few typical compounds in each of the organic classes of organic compounds.

V. Physiology shall include:—

(1) A course of practical instruction in Elementary Biology.
(2) General Physiology.
(3) Special Physiology of the Vertebrata.
(4) Special Physiology of the Invertebrata.

Botany shall include:—

(*a*) The morphology and histology of flowering plants; the general principles of their classification on the systems of Linnæus and de Candolle, with a detailed acquaintance with the characters of the following natural orders:—

Anonaceæ.	Apocyneæ.
Menispermaceæ.	Asclepiadaceæ.
Nymphæaceæ.	Convolvulaceæ.
Papaveraceæ.	Solanaceæ.
Cruciferæ.	Boragineæ.
Malvaceæ.	Acanthaceæ.
Sterculiaceæ.	Verbenaceæ.
Tiliaceæ.	Labiatæ.
Aurantiaceæ.	Amarantaceæ.
Ampelideæ.	Urticaceæ.
Anacardiaceæ.	Euphorbiaceæ.
Leguminosæ.	Palmeæ.
Myrtaceæ.	Arodieæ.
Combretaceæ.	Commelynaceæ.
Cucurbitaceæ.	Orchidaceæ.
Umbelliferæ.	Scitamineæ.
Rubiaceæ.	Cyperaceæ.
Compositæ.	Gramineæ.

(*b*) A general acquaintance with the morphology, histology and classification of cryptogams.

(*c*) Vegetable physiology.

Zoology shall include:—

Embryonic development and comparative anatomy of the principal orders of animals, ordinal classification of the animal kingdom, and generic classification of one selected order of Vertebrata and one of Invertebrata, to be notified beforehand. The geographical distribution and habitats of animals The species of the mammals of India, omitting the micro-mammalia, *viz.*, Insectivora, Rodentia, and Chiroptera; and the Indian genera of one order of Reptilia and one of Aves, to be previously notified.

VI. Geology shall include:—

The classification, structure, and formation of rocks. The evidence of past changes afforded by their present condition, and a practical acquaintance with their mineral characteristics, to be tested by specimens. The generic determination of the most characteristic fossil forms, and the indication of age and habitat which they afford. A practical knowledge of fossil forms to be tested by specimens. A general knowledge of the geology of Great Britain and Western Europe, and a more detailed knowledge of the geology of India. An acquaintance with geological maps, to be tested by the construction of a geological section from a given map.

Mineralogy shall include:—

(*a*) General characteristics of minerals.

(*b*) Crystallography of the structure of minerals, fundamental forms of crystals, cleavage, secondary forms, compound crystals, dimorphism, irregularities of crystals, measuring angles of crystals, massive minerals, columnar structure, lamellar and granular structure, pseudomorphous crystals.

(*c*) Physical properties of minerals; lustre, colour, diaphaneity, refractions and polarization, phosphorescence, electricity and magnetism, specific gravity, hardness, state of aggregation, fracture, taste, odour.

(*d*) Chemical properties of minerals; action of acids, &c., on minerals blow-pipe re-actions of minerals.

(*e*) Classification of minerals.

(*f*) Description and recognition of the more important minerals and rocks or mineral aggregates.

(*g*) Chemical composition and formulæ of minerals.

Physical Geography shall include :—

The form and density of the earth, and modes of ascertaining them. The distribution and characteristic geographical phenomena of land and water Climate and its determining causes. The inorganic physical geography of India Meteorology.

EXAMINATION FOR THE DEGREE OF M. A.

1. An Examination for the degree of Master of Arts shall be held annually in Calcutta, commencing at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

2. Any candidate who has passed the B. A. Examination may be examined for the degree of M. A. in one or more of the following branches :

(1) Languages.
(2) History.
(3) Mental and Moral Philosophy.
(4) Mathematics.
(5) Natural and Physical Science.

3. A fee of rupees fifty shall be payable by each candidate. No candidate shall be examined unless he shall have paid this fee to the Registrar. A candidate who fails to pass or to present himself for Examination shall not be entitled to claim a refund of the fee.

4. Every candidate shall intimate to the Registrar the branch or branches in which he desires to be examined. Such intimation must reach the office of the Registrar at such time as the Syndicate shall determine, the date to be approximately notified in the Calendar for the year.

5. The Examination in languages shall be in English for candidates whose vernacular is not English, or in any one of the following classical languages, *viz.*, Greek, Latin, Sanskrit, Arabic, Persian, Hebrew and Pali.

The subjects in languages shall be selected by the Syndicate two years before the Examination.

The Examination shall include written answers in English to questions relating to the books selected for the Examination.

It shall also include questions on comparative grammar, with special reference to the language professed by the candidate.

Every candidate shall be required to write an Essay in English on a subject connected with the History or Literature of the Language professed by him.

The Examination in English shall include the elements of Anglo-Saxon grammar.

The Examination in the classical languages shall include translation into English from the language professed by the candidate, and into that language from English.

6. The Examination in History* shall be in the following subjects :—

(*a*) The History of England (including Scotland, Ireland and the British Colonies and Dependencies) to the accession of Queen Victoria.
(*b*) The Constitutional History of England.
(*c*) A selected period of History—Indian or European, Ancient, Mediæval, or Modern—te be studied with reference to original sources.
(*d*) Political Philosophy, General Jurisprudence, and International Law.
(*e*) Political Economy and Economic History.

Candidates shall also be required to write an Essay in English on some subject included in the foregoing course.

7. The Examination in Mental and Moral Philosophy shall be in the following subjects :—

Logic, Deductive and Inductive.
Psychology.
Ethics.
Natural Theology, or the Evidences of Christianity.

The above subjects shall be studied historically in the works of the principal authorities.*

8. The Examination in Mathematics shall be in the following subjects :—

(1) Algebra.
(2) Plane Trigonometry.
(3) Theory of Equations and the Elements of Determinants.
(4) Analytical Plane Geometry.
(5) Analytical Solid Geometry.
(6) Differential Calculus
(7) Integral Calculus, omitting elliptic integrals and the calculus of variations.
(8) Differential Equations,
(9) Statics.
(10) Dynamics of a Particle, omitting the more complicated problems of constrained motion upon surfaces, and also propositions involving the application of the calculus of variations.
(11) Hydromechanics, omitting the theory of sound.
(12) Geometrical Optics, omitting the formulæ for the calculation os spherical aberration, and reflection and refraction at surfaces in any manner.
(13) Spherical Trigonometry, omitting the parts which are not required in Astronomy.
(14) Practical and Spherical Astronomy.
(15) Newton's Principia, sections I to III.
(16) Rigid Dynamics, including the motion of Rigid Bodies in two dimensions.

9. Candidates in Natural and Physical Science shall be allowed to select alternatively two out of the following group of subjects :—

* For text-books, *see* Appendix B.

(A) Chemistry.
(B) Electricity and Magnetism.
(C) Heat and the elements of Molecular Physics.

Or two out of the following groups :—

(D) Botany.
(E) Physiology and Zoology.
(F) Geology and Mineralogy.

(A) The course in chemistry shall be both theoretical and practical. In the practical Examination candidates ought to shew a good knowledge of chemical manipulation and ought to be able to qualitatively analyse complex inorganic substances. They should also be acquainted with the principles of quantitative analysis.*

(B) The course in Electricity and Magnetism shall include questions presupposing a moderate acquaintance with the principles and methods of the Differential Calculus, Integral Calculus and Differential Equations. The candidate shall be required to show that he has a competent practical knowledge of the instruments and apparatus employed in Magnetism and Electricity, and to execute experiments in the presence of the Examiner.*

(C) The course in Heat shall include questions presupposing acquaintance with the principles and methods of the Differential Calculus, Integral Calculus, and Differential Equations. The candidate should also show himself thoroughly acquainted with the various instruments and apparatus employed in Heat, and should be prepared to perform measurements and experiments in the presence of the Examiner.*

(D) Botany* shall include the following:—

(*a*) General and special Morphology and Physiology.
(*b*) Systematic Botany.
(*c*) Palæobotany.
(*d*) Practical knowledge of indigenous Indian plants, and identification of specimens of them by Roxburgh's *Flora Indica* (Clarke's edition).

(E) Zoology* shall include the subjects of (*a*) Comparative Anatomy and Physiology, (*b*) Distribution and (*c*) Evolution,

(F) Geology and Mineralogy* shall include the subjects of (*a*) Stratigraphical Geology, (*b*) Palæontology, (*c*) Mineralogy, (*d*) Crystallography, (*e*) Elementary Inorganic Chemistry.

10. As soon as possible after each Examination for the degree of M. A., the Syndicate shall publish a list of candidates who have passed, arranged in three classes, each in order of merit. Candidates shall be bracketed together, unless the Examiners are of opinion that there is clearly a difference in their merits. Each successful candidate shall receive with his degree of M. A. a certificate setting forth the subject in which he was examined, and the class in which he was placed.

11. The candidate who shall be placed first in the first class in each branch shall receive a Gold Medal and a prize of books to the value of one hundred rupees, and the second student of the first class in each branch shall receive a Silver Medal and a prize of books to the value of one hundred rupees.

* For text-books *see* Appendix B.

12. Any Master of Arts may, on payment of a fee of fifty rupees, be admitted to the M. A. Examination in any branch other than that in which he was previously examined, and may, if his attainments come up to the standard prescribed for the degree of M. A., be granted a certificate to that effect, stating the class in which he has passed. A candidate who fails to pass, or to present himself for Examination, shall not be entitled to claim a refund of the fee.

In paragraph 15 of the Regulations for the degree of Bachelor of Medicine the word "two" has been substituted for the word "three," so that the paragraph will henceforth run as follows :—

"Any Licentiate of two years' standing may be admitted to this degree, &c."

A statement of receipts and disbursements, from the 1st April 1881 to the 31st March 1882, is subjoined.

Statement of Receipts and Disbursements of the Calcutta University Fee Fund from 1st April 1881 to 31st March, 1882.

RECEIPTS.

	Rs.	As.	P.	Rs.	As.	P.
Fees for the Entrance Examination, ...	29,390	0	0			
Less Refund, ...	20	0	0			
				29,370	0	0
„ First Arts ditto, ...	...			19,360	0	0
„ B. A. ditto, ...	...			10,740	0	0
„ Honors in Arts and M.A. ditto,	...			3.950	0	0
„ B. L. ditto, ...	...			3,270	0	0
„ First L. M. S. ditto, ...	...			60	0	0
„ Second L. M. S. ditto, ...	...			800	0	0
„ First M. B. ditto, ...	...			760	0	0
„ Second M. B. ditto, ...	...			630	0	0
„ L. C. E. ditto, ...	...			300	0	0
Duplicate Certificates, ...	...			118	0	0
Contributions to the Gown Fund, ...	...			325	0	0
Sale Proceeds of Calendars, ...	982	0	0			
Less Commission, ...	98	3	0			
				883	13	0
Fines, ...	...			16	0	0
Compensation for damages to Furniture,	525	14	6			
Expended, ...	515	8	6			
				10	6	0
Total Revenue, ...	...			70,593	3	0
Amount received as an advance from Government, ...	...			8,000	0	0
Balance on the 1st April, 1881 ...	...			6,407	13	10
Grand Total, ...	...			85,001	0	10

DISBURSEMENTS.

	Rs.	As.	P.	Rs.	As.	P.
Salaries and Permanent Establishment,	7,888	8	3			
Remuneration to Examiners, ...	47,262	0	0			
Prizes, ...	300	0	0			
Examination Expenses, ...	4,134	0	3			
Stationery, ...	1,395	7	3			
Printing Calendar, ...	1,332	6	0			
„ Job works, ...	1,879	0	0			
Service Postage Stamp, ...	500	0	0			
Sir Cecil Beadon's Pedestal,, &c., ..	431	12	0			
Bonus to Permanent Establishment, ..	660	0	0			
Municipal Taxes, ...	900	0	0			
Contingencies, ...	348	11	1			
Printing, &c. of Examination papers in England, ...	1,792	11	2			
				68,824	8	0
Refunded to Government, ...	...			8,000	0	0
Balance on the 31st March, 1882, ...	...			8,176	8	10
Grand Total, ...	...			85.001	0	10

Dr. *Account, Premchand Roychand Studentship Fund.* *Cr.*

	Rs. As. P.	Rs. As. P.		Rs. As. P.	Rs. As. P.
To Balance on the 31st March 1881...	...	9,306 9 9	By Cheques paid for Studentships...	8,000 0 0	
„ Interest on Government Securities	8,840 0 0		„ Commission	22 1 8	
„ Studentship Examination fees ...	192 0 0		„ Remuneration to Examiners ...	800 0 0	
		9,032 0 0			8,822 1 8
			Balance in the Bank ...	...	9,516 8 1
TOTAL Rs. ...	...	18,338 9 9	TOTAL Rs. ...	...	18,338 9 9

Dr. *Account, Duff Memorial Fund.* *Cr.*

	Rs. As. P.	Rs. As. P.		Rs. As. P.	Rs. As. P.
To Balance on the 31st March 1881...	...	1,388 7 9	By Scholarships	720 0 0	
„ Interest on Government Securities	...	955 0 0	„ Commission	2 6 3	722 6 3
			Balance in the Bank ...	...	1,621 1 6
TOTAL Rs. ...	...	2,343 7 9	TOTAL Rs. ...	...	2,343 7 9

Dr. *Account; Tagore Law Professorship.* *Cr.*

	Rs As. P.	Rs As. P.		Rs. As. P.	Rs. As P.
To Balance on the 31st March 1881 ...	...	1,928 13 6	By Professor's salary ...	10,000 0 0	
„ Interest on Government Securities	...	12,000 0 0	„ Commission	30 0 0	
			„ Contingencies	...	
			„ Advertisements	54 14 0	
					10,085 14 0
			Balance in the Bank ...	...	3,842 15 6
TOTAL Rs. ...	...	13,928 13 6	TOTAL Rs. ...	...	13,928 13 6

Dr. *Account, Ishan Scholarship Fund.* *Cr.*

	Rs. As. P.		Rs As. P.
To Balance on the 31st March 1881	729 15 6	By Scholarship	450 0 0
„ Interest on Government Securities... ...	500 0 0	„ Commission	1 4 0
		Balance in the Bank ...	778 11 6
TOTAL Rs. ...	1,229 15 6	TOTAL Rs. ...	1,229 15 6

Dr. *Account, Library Fund.* *Cr.*

	Rs. As. P.		Rs As. P.
To Balance on the 31st March 1881	1,654 4 1	By Cost of purchasing new books	112 7 0
		Balance in the Bank ...	1,541 13 1
TOTAL Rs. ...	1,654 4 1	TOTAL Rs. ...	1,654 4 1

Dr. *Account, Radhakanta Memorial Fund.* *Cr.*

	Rs. As. P.		Rs. As. P.	Rs. As. P.
To Balance on the 31st March 1881	178 2 0	By Commission	0 4 10	
„ Interest	120 0 0			0 4 10
		Balance in the Bank ...	...	297 13 2
TOTAL Rs. ...	298 2 0	TOTAL Rs. ...	...	298 2 0

Dr. *Account, Mouat Testimonial Fund.* *Cr.*

	Rs. As. P.		Rs. As. P.
To Balance on the 31st March 1881	261 6 3	By Commission	0 3 8
„ Interest	90 0 0	Balance in the Bank ...	351 2 7
TOTAL Rs. ...	351 6 3	TOTAL Rs. ...	351 6 3

Dr. *Account, Ritchie Memorial Fund.* *Cr.*

	Rs. As P.		Rs. As P.
To Balance on the 31st March 1881	107 13 5	By Commission	0 1 10
„ Interest on Government Security	44 0 0	Balance in the Bank ...	151 11 7
TOTAL Rs. ...	151 13 5	TOTAL Rs. ...	151 13 5

Dr. *Account, Vizianagram Scholarship.* *Cr.*

	Rs. As. P.		Rs. As. P.
To Balance on the 31st March 1881	600 0 0	By Cheques paid on account of Scholarship ...	700 0 0
„ Amount received from Raja Suttyananda Ghoshal, Bahadoor	600 0 0	Balance in the Bank ...	500 0 0
TOTAL Rs. ...	1,200 0 0	TOTAL Rs. ...	1,200 0 0

Dr. *Account, Harishchandra Prize Fund.* *Cr.*

	Rs. As. P.		Rs. As. P.
To Balance on the 31st March 1881	358 12 8	By Commission	0 4 10
„ Interest	120 0 0	Balance in the Bank .	478 7 10
TOTAL Rs. ...	478 12 8	TOTAL Rs. ...	478 12 8

Dr. *Account, Woodrow Memorial Scholarship Fund.* *Cr.*

	Rs. As. P.		Rs. As. P.
To Balance on the 31st March 1881	111 4 6	By Scholarship	224 0 0
„ Interest	192 0 0	„ Commission	7 8 0
		Balance in the Bank ...	78 12 10
TOTAL Rs. ...	303 4 6	TOTAL Rs. ...	303 4 6

Dr. *Account, Harschel Testimonial Fund.* *Cr.*

	Rs. As P		Rs As. P.
To Balance on the 31st of March 1881	..	By Commission	0 2 10
„ Interest	72 0 0	Balance in the Bank ...	71 13 2
TOTAL Rs. ...	72 0 0	TOTAL Rs ...	72 0 0

Dr. *Account, Patchati Sanskrit Scholarship Fund.* *Cr.*

	Rs. As. P		Rs. As P.
To Balance on the 31st of March 1881	74 10 6	By Commission	0 3 8
„ Interest	90 0 0	Balance in the Bank ..	164 6 10
TOTAL Rs ..	164 10 6	TOTAL Rs .	164 10 6

The Syndicate for the coming year is constituted as follows :—

A. W. Croft, Esq , M. A.	In Arts.
A. M. Bose, Esq., ...	In Arts.
The Rev. J. Robertson, M. A.	In Arts.
W. C. Bonnerjee, Esq., ...	Law.
A. J. Payne, Esq , M.D.... ... ... ,,	Medicine.
H. Levinge, Esq., ... ,,	Engineering.

It is recommended that the Faculties for 1882-83 be constituted as follows :—

ARTS.

President :

A. W. Croft, Esq , M. A.

Members :

The Hon'ble the Lieutenant-Governor of Bengal.
The Hon'ble the Lieutenant-Governor, North-Western Provinces.
The Hon'ble the Lieutenant-Governor of the Panjab.
The Most Rev. the Lord Bishop of Calcutta.
The Hon'ble J. Gibbs, C.S.I.
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Rai Rajendralala Mitra, Bahadur, D.L. C.I.E.
Raja Harendrakrishna, Bahadur.
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Babu Radhikaprasad Mukerjea.
The Hon'ble Franklin Prestage.
Colonel S. T. Trevor, R.E.
S. F. Downing, Esq., B.A.

The undermentioned gentlemen have conducted the University Examinations for 1881-82.

Entrance Examinations.

English ... ... Rev. J. Edwards.
W. Young, Esq.
J. Mann, Esq.
Rev. W. Johnson.

Sanskrit and Bengali	Baboo Nakuleswar Banerjee. " Rajanikanta Gupta. " Gopalchandra Gupta. " Bereswar Chatterjea.
Hindee and Oriya	Rev. K. M. Banerjea, D. L.
Arabic Persian, and Urdu ...	Major H. S. Jarrett.
History and Geography	R. Carter, Esq. Rev. Lalbihari Dey. Baboo Prasannakumar Ray. Dr. A F. Rudolf Hoernle.
Mathematics...	Rev. E. S. Summers. Very Revd. D. Van Impe, S. J. J. A. Martin, Esq. Rev. G. H. Rouse.

First Arts and B. A. Examinations.

English	Rev. R. J. Bell. W. T. Webb, Esq.
Arabic and Persian	Major H. S. Jarrett.
Sanskrit	Rev. K. M. Banerjee, D L. Pandit Maheschandra Nyayaratna.
History	Rev. J. Robertson. M. J White, Esq.
Mathematics	H. W. M'Cann, Esq., D. Sc. W. N. Boutflower, Esq.
Philosophy	Rev. W. Hastie. A. R. Thompson, Esq.
Physical Science	Dr. Murray Thomson. A. Ewbank, Esq.
Botany	Dr. Geo. King.
Geology and Zoology	R. Lydekker, Esq.

Entrance, First Arts and B. A. Examinations.

Latin and Greek	H. M. Percival, Esq., A. C. Edwards, Esq.
Arabic, Persian, and Urdu ...	Major H. S. Jarrett.

Honor and M. A. Degree Examinations.

English	Rev. R. J. Bell. W. T. Webb, Esq.
Sanskrit	Rev. Dr. K. M. Banerjea. Pandit Maheschandra Nyayaratna.
Arabic	Major H. S. Jarrett.
History	Rev. Jas. Robertson. M. J. White, Esq.
Mathematics	Dr. H. W. McCann. W. N. Boutflower, Esq.
Philosophy	Rev. W. Hastie. A. R. Thomson, Esq.
Physical Science	Dr. Murray Thomson. A. Ewbank, Esq.
Botany	Dr. Geo. King.
Geology and Zoology	R. Lydekker, Esq.

Premchand Roychand Studentship Examinations.

English	A. W. Garrett, Esq.
Latin	W. T. Webb, Esq.
Sanskrit	Rev. Dr. K. M. Banerjea.
Pure Mathematics	A. M. Nash, Esq.
Mixed Mathematics	W. Booth, Esq.

History	Rev. J. Robertson.
Philosophy	„ W. Hastie, B. D.
Physical Science	J. Eliot, Esq.

B. L. Examination.

N. N. Ghose, Esq.,

Dr. Trailokyanath Mitra.

Medicine.

In Anatomy	Dr. K. McLeod.
„ Chemistry	Rai Kanai Lal De, Bahadur.
„ Medicine and Midwifery ...	Dr. R. C. Chandra.
„ Surgery and Ophthalmic Surgery	Dr. D. O'C. Raye.
„ Physiology and Comparative Anatomy	J. Wood-Mason, Esq.
„ Botany	Dr. D. D. Cunningham.
„ Materia Medica	Dr. R. Harvey.
„ Pathology and Hygiene ...	Dr. J. F. P. McConnell.
„ Medical Jurisprudence ...	Dr. C. J. H. Warden.

Engineering.

Engineering	T. H. Wickes, Esq. C. E. J. White, Esq. C. E.
Mathematics	A. M. Nash, Esq.
Physical Science	Dr. C. J. H. Warden.
Drawing	H. H. Locke, Esq.

G. BELLETT,

Offg. Registrar.

The 15*th April* 1882.

Number of Candidates at University Examinations, and the number passed, in each year since 1857.

Year.	Entrance.		First Examination in Arts.		Bachelor of Arts.		Master of Arts.		Licence in Law.		Bachelor in Law.		Doctor in Law.		Licence in Medicine and Surgery.				Bachelor in Medicine.				Doctor of Medicine.		Licence in Civil Engineering.		Bachelor in Civil Engineering.	
															First Examination.		Second Examination.		First Examination.		Second Examination.							
	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.	No. of candidates.	No. passed.
1857 ...	244	162	...	...	...	...	...	...	...	..	...	...	...	...	12	12	...	...	...	...	...	...	...	...	...	...	...	...
1858 ...	464	111	...	...	13	2	...	...	...	...	19	11	...	...	40	24	...	...	...	...	...	...	...	...	...	...	...	...
1859*...	1,411	583	...	...	20	10	...	...	...	...	20	3	...	..	31	12	...	...	...	...	...	...	...	...	...	...	...	...
1860 ...	808	475	.	...	65	13	...		...	...	22	10	...	...	31	13	...	...	...	...	..	...	...	...	...	...	...	...
1861 ...	1,058	477	163	97	39	15	1	...	7	2	17	14	...	...	16	7	20	14	...	...	...	...	...	...	10	6	...	...
1862 ...	1,014	477	220	99	34	24	3	...	16	8	13	13	...	...	33	18	17	7	...	...	...	.	1	1	18	14	...	...
1863 ..	1,307	690	272	149	35	25	7	6	19	9	15	9	...	...	35	16	19	14	...	...	...	...	2	2	...	...	...	...
1864 ...	1,396	702	321	151	66	30	8	3	1	1	22	19	...	...	42	22	25	11	...	...	...	...	2	...	10	5	...	...
1865 ...	1,500	510	446	202	82	45	15	11	7	5	17	17	...	...	34	14	20	18	2	2	...	...	1	1	5	2	...	...
1866 ...	1,350	638	426	131	122	79	18	15	17	13	22	11	...	...	35	10	26	20	5	5	...	...	...	...	9	...	...	...
1867 ...	1,507	814	388	188	141	60	39	22	17	14	36	22	...	...	44	17	18	15	2	1	2	2	...	...	6	6	...	...
1868 ...	1,734	892	423	196	212	99	25	15	10	3	72	51	...	...	45	6	13	11	2	1	4	3	...	...	3	2	...	...
1869 ...	1,730	817	520	225	174	77	29	18	32	13	98	58	...	...	61	27	20	19	3	2	2	2	..	...	7	4	1	1
1870 ...	1,905	1,099	540	233	210	98	32	24	26	18	87	74	...	...	56	42	7	5	4	4	1	1	...	...	9	3	...	...
1871 ...	1,902	767	507	204	212	84	39	35	27	12	83	51	...	...	58	38	29	27	2	2	2	1	...	...	12	2	1	...
1872 ...	2,144	938	560	220	232	100	32	24	58	17	100	21	...	...	68	29	42	27	2	...	5	3	...	...	14	7	2	1
1873 ...	2,544	848	539	305	242	126	30	20	93	44	137	72	...	...	77	31	48	23	1	...	4	2	...	...	18	2	4	1
1874 ...	2,254	966	533	193	212	92	57	32	65	46	103	79	...	...	113	34	47	36	6	4	2	1	...	...	22	2	2	...
1875 ...	2,373	838	575	182	217	90	38	18	...	...	71	40	...	...	155	31	42	13	11	7	1	...	...	...	16	6	4	3
1876 ...	2,425	1,355	756	344	281	73	38	24	...	...	86	54	...	...	171	70	55	10	14	9	5	3	..	...	12	5	9	3
1877 ...	2,720	1,166	791	253	287	144	49	31	...	...	83	61	2	2	196	46	60	28	23	9	8	7	...	...	24	8	10	4
1878 ...	2,617	1,098	923	267	228	68	62	28	..	...	61	29	...	...	104	60	91	34	22	17	10	7	...	...	21	5	7	1
1879 ...	2,697	1,069	1,040	320	323	91	48	28	...	...	84	47	...	...	46	16	91	19	14	7	9	7	...	...	21	...	5	...
1880 ...	2,793	1,666	983	398	319	112	52	31	...	...	89	47	...	...	18	4	111	65	29	14	17	7	1	1	27	10	4	3
1881 ...	2,937	1,409	968	364	352	155	56	37	...	...	90	37	...	...	2	...	47	18	32	11	15	9	...	...	12	6	...	...
1882 ...	...	...	...	...	358	105	79	32	...	...	109	69	...	...	3	...	31	10	38	12	21	10	...	...	...	...	...	...

* Two Entrance Examinations in 1859.

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